



Pre-Construction Boring Report

**L.E. Carpenter & Company
Wharton, New Jersey**

USEPA ID No. NJD002168748

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346437



I BACKGROUND

The L.E. Carpenter & Company (LEC) site (herein "the site") is located at 170 North Main St., Borough of Wharton, Morris County, New Jersey. According to the approved Remedial Action Work Plan (RAWP) for Source Reduction (RMT; April 2004), all enhanced fluid recovery (EFR) wells and selected existing groundwater monitoring wells were properly abandoned as part of the pre-construction activities outlined in Sections 6.2 and 6.3 of the RAWP. The RAWP also specified the need to evaluate the vertical extent of the light nonaqueous-phase liquids (LNAPL) smear zone concurrently with well abandonment and protection operations, and prior to initiating the LNAPL source reduction.

II SUMMARY OF WORK

Twenty preliminary soil borings (B-1 through B-20) were installed with a "mini-sonic" drilling rig, and 12 follow-up borings were installed with a full-size roto-sonic drill rig equipped with an outer protective steel casing within and adjacent to the area of the excavation at locations shown on Figure 1. Although recovery was limited to some extent in all 32 soil borings, primarily as a function of the cobbly nature of the site soils, all 32 soil borings were "continuously" sampled using a vibratory core barrel soil sampler. To estimate the thickness of the smear zone soils (in order to finalize excavation depths), the recovered soils were evaluated in the field for the presence of LNAPL constituents. These evaluations consisted of visual and olfactory observations, and photoionization detector (PID) readings of soil samples as specified in the RAWP. For the pre-construction PCB sampling, RMT collected soil samples in the polychlorinated biphenyl (PCB) area to more accurately define the perimeter of the impacted area. The boring logs from the smear zone investigation are presented in Appendix A, and laboratory data sheets for the PCB sampling are provided in Appendix B.

The initial 20 borings were followed up by an additional 12 soil borings (CB-1 through CB-12) because certain areas appeared to host an LNAPL smear zone that was thicker than anticipated, percent recovery of soil core from the initial borings was lower than desired, and because variable sloughing of fine-grained portions of formation within the smear-zone raised questions regarding the accuracy of smear-zone depth determinations. The twelve follow-up borings were installed with a full-size rotosonic drilling rig that was equipped to advance an inner casing/soil sampler, and an outer protective casing. To provide more detailed estimates of the thickness of the smear zone soils, the recovered soils in the follow-up borings were evaluated in the field using additional qualitative field testing of soil samples, including flame ionization detector (FID) readings of soil samples and soil testing using "Oil-In-Soil" test kits (Figure 2).

The following procedures were followed during drilling of the 12 follow-up soil borings (CB-1 through CB-12):

- Prior to beginning the drilling effort, static water and free product elevations were obtained from the EFR recovery wells. These levels were evaluated with respect to depth to water and free product in the wells closest to each planned boring.

- A rotosonic drill rig was then used to advance borings in the area known to contain free product at the locations shown on the field planning map for preconstruction borings.

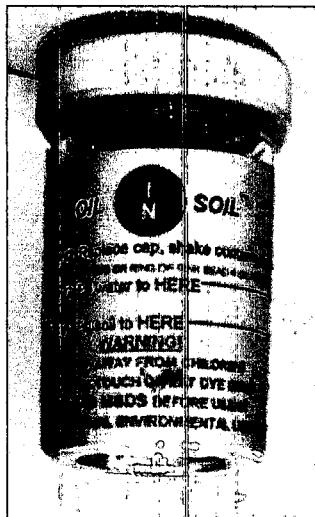


Figure 2. Oil in Soil Test Kit (vial is 3.8 inches long)

- The 4-inch sonic sampling tube was advanced to the approximate depth of or no more than 1-foot above the expected depth of free product (for example, if the free product was measured in three surrounding wells at a depth of 9.5 feet below ground level (bgl), then the 4-inch sonic sampling tube was advanced to a depth of about 9 feet; the outer drill pipe that is 6.5 inches o.d. was then advanced to a depth of 9 feet before sampling through the smear zone began).
- In general, the length of core-barrel advanced through the free-product/smear zone varied depending on the amount of recovery experienced during the initial borings. For the example provided above, the second sonic sample tube run took place from 9 feet to a depth of 14 feet. Once that depth had been reached, the outer drill tube was advanced also to 14 feet, and the sample run from 9 feet to 14 feet was then removed from the hole and examined. Advancing the drill hole in this manner minimized the extent of contaminated slough as well as the potential for free product drainage down the hole.
- Before advancing the borehole any further, the following tasks were accomplished:
 1. The percent recovery of soil core was measured and recorded for each soil boring sample-run.
 2. Immediately upon exposing the soil core, the sample was tested for the presence of volatile organic compounds (VOCs) through use of oil-in-soil tests, a PID and where possible a FID.

3. The fluid levels in the hole were generally allowed to equilibrate for 5 to 30 minutes (no more than 60 minutes). During this time, readings were gathered and recorded showing the fluid levels. These readings were collected with an interface probe so both free product and water levels could be measured.
 4. In the event free product was measured in the cased hole, all fluids within the cased hole were pumped out, and the outer casing cleaned out in order to minimize to the extent possible cross-contaminating deeper soil cores. This step was repeated until no free product could be measured inside the cased hole.
- All cuttings/soil samples collected from below the first sample run (below 8.5 feet in the example) were containerized in a separate 55-gallon drum labeled "contaminated soils".
 - All drill pipes were steam-cleaned prior to using for the next scheduled boring.

III RESULTS

III.1 LNAPL Smear Zone Area

Figure 1 shows the location of all 32 pre-construction borings. Data from the borings (see logs in Appendix A) were used, along with existing apparent free product data and groundwater flow direction, to refine the lateral extent of the free product excavation area as shown on Figure 1.

The free product data collected during the pre-construction boring program are summarized on Table 1. The vertical limits of significant LNAPL smear zone were defined based on PID readings, results from the Oil-in-Soil test vials, and percent soil recovery from the core barrel. Soil samples were collected and placed into "oil-in-soil" test kits similar to the one shown on Figure 2. In general, all soils tested in this manner consisted of the fine-grained portions of the predominantly coarse-grained sand and gravel formation. The test kits consist of a plastic vial with a small cube of dye glued to the bottom of the cap (Figure 2). Once soil and water is added and thoroughly mixed per the instructions on the sample vials, the cube will dissolve, activating the green dye. The red dye is only activated if some hydrocarbon product is present. The activation of the red dye cannot be used to estimate concentrations, and also cannot be used to determine whether or not LNAPL product is mobile in the subsurface. Thus, pink/red staining of soil simply indicates that LNAPL product is present in the sample (although not necessarily mobile as free product in the formation), while green staining only indicates a lack of oil, as demonstrated by the two examples shown below on Figure 3.

Data from the borings were used to define the vertical limits of the LNAPL smear zone as shown on the cross sections of Figure 4. The LNAPL smear zone proposed for excavation was found to vary in thickness from 1 to 10 feet.

The data from the borings were also used to develop an excavation plan that encompasses the LNAPL smear zone and will thus maximize the removal of smear zone soils. Figure 5 shows the aerial extent of LNAPL excavation and the placement and elevation ranges for individual

excavation cells. Figure 4 also shows the proposed excavation depths, which can be seen on the cross section to fully encompass the smear zone.



Figure 3 Examples of Oil-in-Soil samples showing presence of hydrocarbon (pink) and no hydrocarbon present (green).

III.2 PCB Area

Figure 6 shows the lateral extent of PCB's as recently defined by soil sampling conducted in December, 2004. Note the footprint of the proposed excavation area has been increased in order to remove soils that contain PCBs in excess of 490 parts per billion (ppb) (residential cleanup standard).

The sampling frequency along the outside of the proposed excavation area is approximately one sample every 30 feet, and as such should suffice to meet the perimeter verification sampling requirements as outlined in the response to comments on the RAWP dated November 5, 2004.

Excavation floor sampling at a frequency of one sample per 900 square feet (30-foot centers) will be performed following the completion of the PCB excavation.

IV SMEAR ZONE REMEDIAL CONSTRUCTION APPROACH

The approach for excavation and removal of the smear zone soils will be the same approach that was outlined in the approved RAWP, with the exception that the depth of excavation and the horizontal limits of the excavation have been adjusted based upon the pre-construction investigation. In order to properly excavate and remove the smear zone soils, the following construction methods will be used: A licensed New Jersey surveyor will stake the boundary locations of the grids (Figure 5) to be excavated and survey the top elevation of the smear zone soils for removal. The bottom elevations will be verified and the "cut depth" determined.

- A "Depthmaster" receiver (or equivalent) will be mounted onto the "stick" of the excavator performing the excavation of the smear zone soils. The depthmaster device is a laser receiver, which provides the operator with visual feedback on the depth of the excavation. A horizontal plane laser is stationed on the site within visual contact of the receiver mounted onto the excavator. As the operator reaches the specified elevation, a remote panel (for the receiver) mounted in the cab of the unit provides indicator lights to the operator, which allows him to maintain a constant grade.
- As the excavation reaches the depth of the groundwater, a grout mixture will be pumped into the excavation area such that a grout fluid level is maintained above the water table. The grout or "slurry" is used to structurally stabilize the soils and prevent the influx of groundwater. As the final depth of an area is achieved, the elevations will be noted, and checked against the settings of the depthmaster. The operator will pass the bucket of the excavator through the slurry at the required elevation and if no resistance is indicated or material dislodged, the excavation will be deemed complete.
- Excavations will be performed throughout the area until the grid in progress is complete. As it may take more than one day to complete the grid in process, a daily log will be kept in the written form of a surveyor book and also on the daily reports generated on the job as to the areas excavated on a given day.

After the elevations are verified and checked, the "oversized" material generated from the screening process will be placed back into the excavation into the slurry mixture for use as backfill. This will reduce the amount of areas open below the groundwater table at any given time and reduce the need for unnecessary slurry production.

TABLES

Table 1
Pre-Construction Boring Data Summary
L.E. Carpenter Site

Boring	Ground Reference Elevation ⁽¹⁾			Approximate elevations of Smear Zone		Approximate depth bgl to water or product	APPARENT FREE PRODUCT	Highest PID	Comments
		TOP	BOTTOM	TOP	BOTTOM				
CB-1	630.08	0	0	0	0	1.5	0	0.5	Possibly perched water.
CB-2	630.85	7	12.5	624	618	7	0	1400 (FID=230)	No free product measured in hole at different depths, but PID and FID readings and odors indicate a smear zone thickness of about 5 to 6 feet.
CB-3	634.42	9	14	625	620	9	0.09'	7,285 (FID=816)	0.09 feet of product measured in hole cased at 10.5 feet; possible sheen only with hole cased at 12 feet and none measured after bailing hole and re-measuring after 30 minutes. After sampling with 4-inch inner casing to 15 feet, 0.02 feet of product was measured in hole with outer 6-inch casing at 12 feet (open hole to 15 feet).
CB-4	634.23	0	0	0	0	8	0	38	No product measured in hole at different depths; no soil staining in Oil-In-Soil kits indicates absence of smear zone.
CB-5	633.57	8	17.5	626	616	8	0	2,380 (FID=561)	No product measured in hole at different depths; but PID/FID readings, odors, and oil-in-soil kits indicate a smear zone thickness of about 8 feet. Oil-covered gravel appears to be possibly anthropogenic, possibly related to former building foundation backfill. This is one of 2 borings with the thickest smear zone found at about 10 feet thick.
CB-6	631.35	6	13	625	618	6	SHEEN	9,024 (FID=608)	Measured sheen in hole with outer casing at 10 feet bgl; no free product detected in hole with outer (2nd) casing advanced to 15 feet.
CB-7	629.29	4	9	625	620	5	0	3,527	No product measured in hole at different depths; but PID readings, odors, and oil-in-soil kits indicate a smear zone thickness of about 2 feet.
CB-8	629.11	5	6.5	624	623	5	0	451	No product measured in hole at different depths; only slight odors and low PID readings; slight staining in oil-in-soil kits indicate thin smear zone at edge of LNAPL mass.
CB-9	631.58	7	9	625	623	7	0	407	No product measured in hole at different depths; only slight odors and low PID readings; slight staining in oil-in-soil kits indicate thin smear zone at very edge of LNAPL mass.
CB-10	633.11	8	18.5	625	615	9	0.05'	208	Maximum of 0.05 feet of product measured in hole with outer casing advanced to 13 feet bgl and open hole to 16 feet. Unusually low PID readings given positive (heavy pink-staining indicating product is present) oil-in-soil staining, free product measurement, and diesel odors. This is one of 2 borings with the thickest smear zone found at about 10 feet
CB-11	633.58	9.5	16	624	618	9.5	0	3,997	No product measured in hole at different depths; but PID readings, odors, and oil-in-soil kits indicate a smear zone thickness of about 6 feet.
CB-12	628.05	8.5	9.5	620	619	5	0	3,661	No product measured in hole at different depths; but PID readings, odors, and oil-in-soil kits indicate a smear zone thickness of about 1 foot.
B-1	634.82	10	15	625	620	10	0	2,000	No product measured in open hole but PID readings and odors indicate a smear zone thickness of about 5 feet.
B-2	634.48	10	12.5	624	622	10	0.4'	1,205	Maximum of 0.4 feet of product measured with open hole to 15 feet.
B-3	634.49	10	17	624	617	10	0.4'	672	Maximum of 0.4 feet of product measured with open hole to 15 feet.
B-4	635.98	12	16	624	620	12	0.01'	130	Maximum of 0.01 feet of product measured with open hole to 15 feet.
B-5	633.46	9	11.5	624	622	9	0.4'	30	Maximum of 0.4 feet of product measured with open hole to 15 feet; unusually low PID readings
B-6	633.93	9.5	12	624	622	9.5	SHEEN	687	Product sheen observed in hole open to 15 feet.
B-7	629.75	6	10	624	620	5	0	1,385	No product measured in open hole but PID readings, odors indicate a smear zone thickness of about 2 feet.
B-8	630.19	8	15	622	615	9	0	1,378	No product measured in open hole but PID readings, odors indicate a smear zone thickness of about 7 feet. Area of process waste that occurs above the water table.
B-9	629.94	6	7	624	623	5	0	298	No product measured in open hole but PID readings (albeit very low ones) together with slight odors indicate no significant smear zone at this location.
B-10	627.54	7	9	621	619	6	SHEEN	1,002	Product sheen observed in open hole and PID readings, odors, indicate a smear zone thickness about 2 feet.
B-11	627.14	5	8	622	619	4	YES (0.4')	780	Maximum of 0.4 feet of product measured with open hole to 15 feet.
B-12	628.23	7	9	621	619	5	0	1,510	No product measured in open hole but PID readings and odors indicate a smear zone thickness of about 2 feet.
B-13	631.93	8	12	624	620	7	YES (0.05')	2,000	Maximum of 0.05 feet of product measured with open hole to 15 feet.
B-14	625.59	0	0	0	0	3	0	92	No product measured in open hole and no smear zone
B-15	627.02	0	0	0	0	3	0	11	No product measured in open hole and no smear zone
B-16	629.58	6	11	624	619	5	YES (0.04')	1,524	Maximum of 0.04 feet of product measured with open hole to 15 feet.
B-17	633.09	8.5	13	625	620	8.4	YES (0.2')	598	Maximum of 0.2 feet of product measured with open hole to 15 feet.
B-18	629.16	7	9	622	620	5	SHEEN	1,298	Only a sheen observed in open hole and PID readings and odors indicate a smear zone thickness of about 2 feet.
B-19	626.79	6	8	621	619	2	0	574	No product measured in open hole but PID readings and odors indicate a smear zone thickness of about 2 feet.
B-20	625.07	0	0	0	0	1.5	0	66	No product measured in hole and no smear zone found.

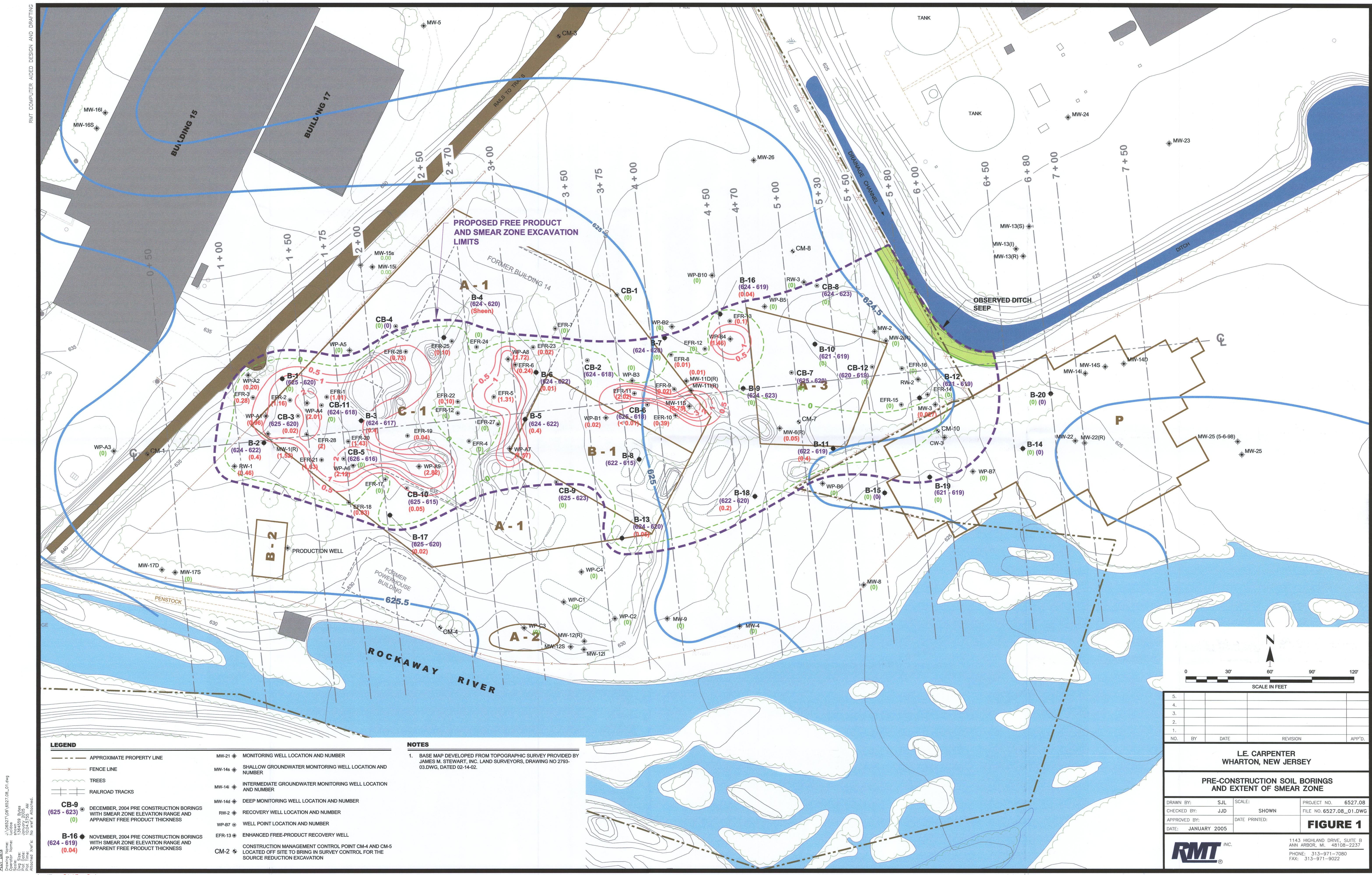
Smear zone and/or product present

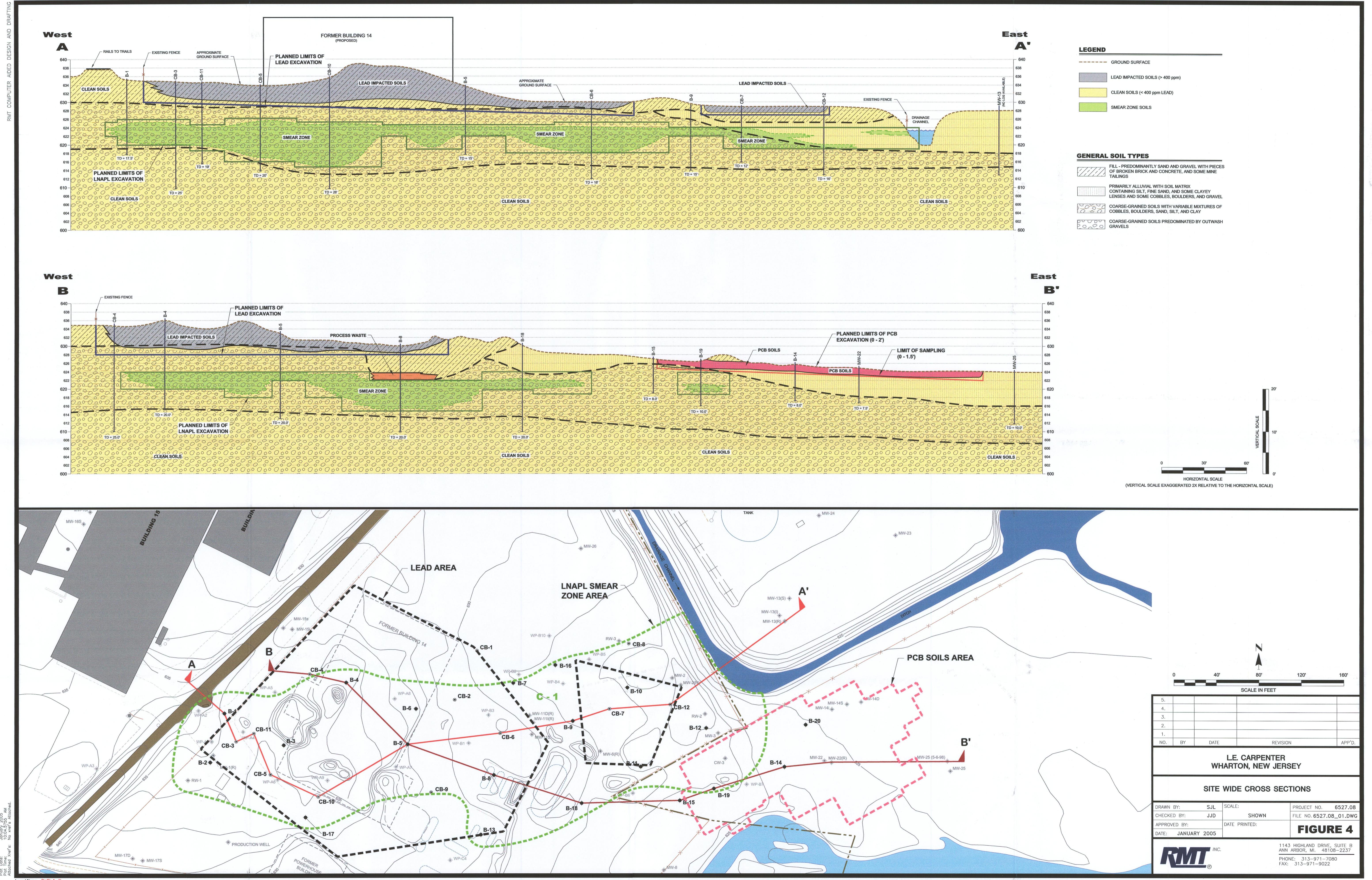
Smear Zone Elevation Range

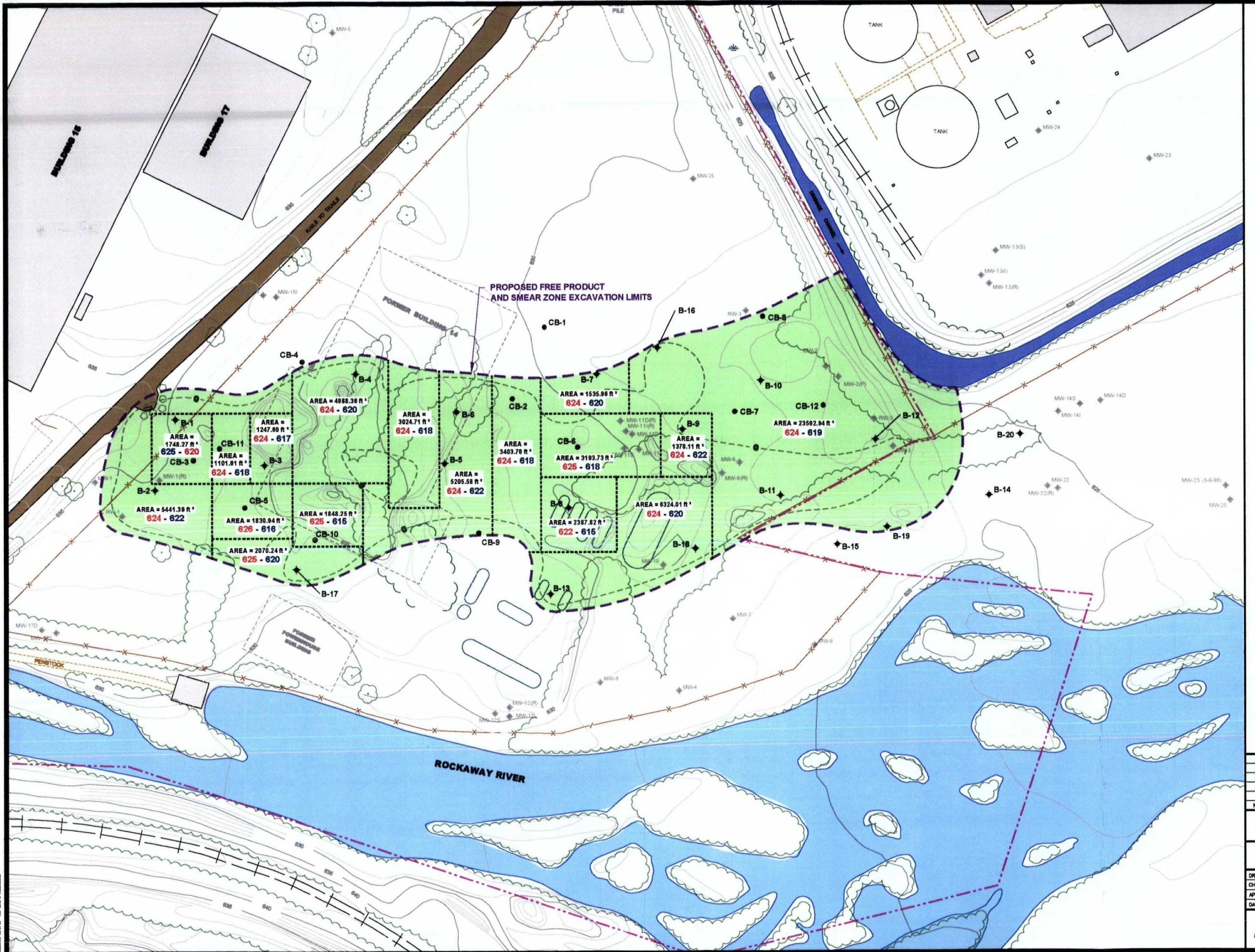
No product and/or smear zone

(1) Ground Elevations Surveyed by Weber Surveying, December 2004
 bgl = below ground level

FIGURES







LEGEND					
APPROXIMATE PROPERTY LINE				PROJECT NO. 8527.08	
FENCE LINE				FILE NO. 8527.08-07.DWG	
TREES				DRAWN BY: S.J.L. CHECKED BY: JJD APPROVED BY: NC DATE PRINTED: JANUARY 2005	
C-1	AREA CONTAINING FREE PRODUCT SMEAR ZONE SOILS	PRODUCT IMPACTED SOILS(SMEAR ZONE)	DECEMBER, 2004 PRE CONSTRUCTION BORINGS LOCATION AND NUMBER	NOVEMBER, 2004 PRE CONSTRUCTION BORINGS LOCATION AND NUMBER	SMEAR ZONE INTERIOR AREAS (FOR DEPTH RANGE)
CB-9	CB-9	CB-9	B-16	B-16	624 - 620 SMEAR ZONE EXCAVATION RANGE
B-16	B-16	B-16	B-16	B-16	BOTTOM OF SMEAR ZONE EXCAVATION
					TOP OF SMEAR ZONE EXCAVATION
SAMPLE OR MONITORING LOCATION AND NUMBER					
MW-21 MONITORING WELL LOCATION AND NUMBER					
NOTES					
1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO. 2798-03 DWG, DATED 02-14-02.					

**LE. CARPENTER
WHARTON, NEW JERSEY**

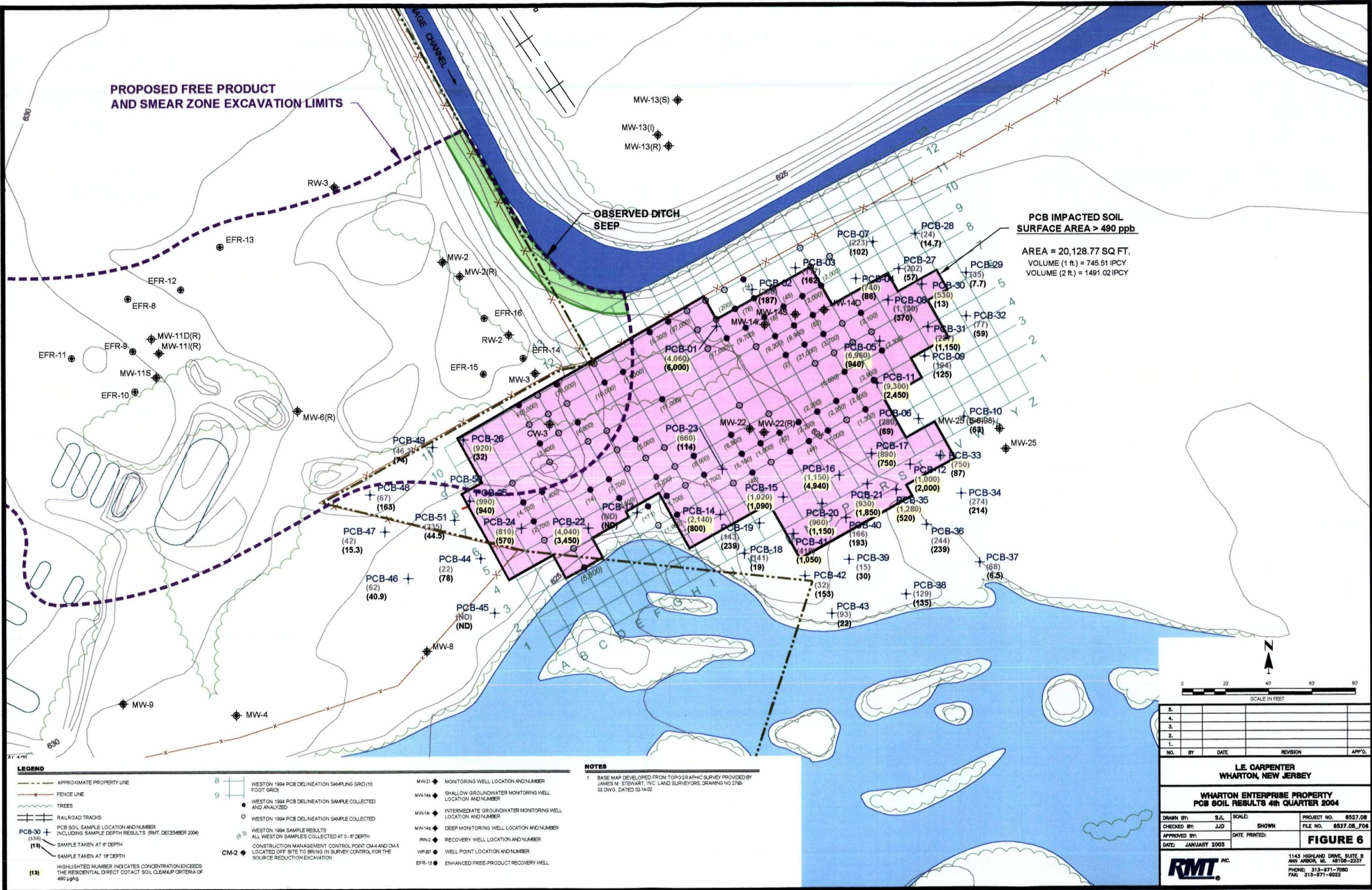
PLAN VIEW AND VERTICAL LIMITS OF EXCAVATION OF LNAPL SMEAR ZONE

DRAWN BY:	S.J.L.	SCALE:	PROJECT NO. 8527.08
CHECKED BY:	JJD	SHOWN	FILE NO. 8527.08-07.DWG
APPROVED BY:	NC	DATE PRINTED:	
DATE:	JANUARY 2005		



1143 HIGHLAND DRIVE, SUITE B
ANN ARBOR, MI 48108-2237
PHONE: 734-971-7080
FAX: 734-971-8022

FIGURE 5



**APPENDIX A
BORING LOGS**



SOIL BORING LOG

BORING NO. CB-1

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 12/1/04	Date Drilling Completed: 12/1/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear		Drilling Method: Sonic	Surface Elev. (ft) 630.08	TOC Elevation (ft) ---	Total Depth (ft bgs) 5.0	Borehole Dia. (in) 4.25			
Boring Location:				Personnel Logged By - J.D. Driller - J. Weeks.	Drilling Equipment: Sonic				
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 12/1/04 00:00 After Drilling: Date/Time					
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	90			Asphalt 4.0"			///		Very Heavy Rain
			1	Sand w/gravel (to 8" diameter) Drk Gray 10 YR 4/1 (Mort of run was recovered despite entrance of large gravel ovce, which somewhat jammed open retrieval at soil core)		SW			
			1	Sandy gravel Black 10 YR 2/1		SW			
			2	Clayey silt 10 YR 4/4		CL-ML			
			3	Sand w/ some gravel, dry, Gray 10 YR 2/1		SW			
			4	Sandy gravel Moist, Black 10 YR 2/1, material smells of burnt rubber. No free product measured in hole.		SW			
			5	No Recovery					.5
			5	EOB 5.0'					



SOIL BORING LOG

BORING NO. CB-2

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 12/1/04	Date Drilling Completed: 12/1/04	Project Number: 6527.08	
Drilling Firm: Boart Longyear	Drilling Method: Sonic		Surface Elev. (ft) 630.85	TOC Elevation (ft) ---	Total Depth (ft bgs) 17.5	
Boring Location:			Personnel Logged By - J.D. Driller - J. Weeks		Borehole Dia. (in) 4.25	
Civil Town/City/or Village: Wharton		County: Morris	Water Level Observations: While Drilling: Date/Time 12/1/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 6 After Drilling: Date/Time			
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	LITHOLOGIC DESCRIPTION		USCS GRAPHIC LOG PID (PPM)	COMMENTS
1 CS	100		Sandy Gravel w/ little silt, brown 10 YR 4/3 grades to drk brn then black	GM		CS=Continuous Sampling
			Sandy Gravel to 2.5' drilled through rock from 3-3.8'	GW		12
2 CS	75		2-4' Sandy Gravel/ silt to 5.0' 10 YR 4/2 Slight odor	GM		30
			Same as above; moist to wet Slight odor	GM		65
3 CS	83		No Recovery	GM		1100
			Same as above Solvent smell	GW		1400
4 CS	90		Sandy Gravel Dark Gray (10 YR 4/1)	GM		250
			No Recovery	GM		5
5 CS	93		Sandy gravel w/ little silt, saturated	GM		
			No Recovery	GM		
6 CS	80		Sandy gravel w/ little silt, saturated, little odor.	GM		
			Same as above Becomes more gravelly, much less odor than above.	GM		
			No Recovery	GM		
			Same as above, but no odor.	GM		
			No Recovery	GM		
			EOB 17.5'			



SOIL BORING LOG

BORING NO. CB-3

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 12/1/04	Date Drilling Completed: 12/1/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear		Drilling Method: Sonic	Surface Elev. (ft) 634.42	TOC Elevation (ft) ---	Total Depth (ft bgs) 15.0	Borehole Dia. (in) 4.25			
Boring Location:				Personnel Logged By - J.D. Driller - J. Weeks	Drilling Equipment: Sonic				
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 12/1/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 9 After Drilling: Date/Time					
SAMPLE		RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	70			Asphalt 4.0"					CS= Continuous Sampling
				Sandy gravel Black (10 YR 2/1)	SW				
				Sandy Gravelly Clayey Silt Drk Brown (10 YR 3/3)	ML				
				Sandy Gravel Grayish brown (10 YR 5/2)	SW				
2 CS	50			No Recovery					0
				Same as above, Very slight odor	SW				
				No Recovery					
				Gravel w/ sandy clayey silt matrix that is slightly plastic, strong odor and wet, grayish brown (10 YR 5/2)	GW-GC				
3 CS	100			▽					Free product measured at 9-10' in open hole w/ bottom at 10.5' = 0.9" Oil in soil samples show pink staining at 8.5 and 9.5'.
				No Recovery					
				Sandy gravel to 12.75' and then coarse sand to 13.5' with solvent odor. Estimate smear zone to 14.0'.	GW-GC				
				No Recovery					
4 CS	50			EOB 15.0'					Drilled sample core down to 15' (12-15) recovered 1.5' Free product in hole 2.0", Oil in soil test shows pink staining (product present)



SOIL BORING LOG

BORING NO. CB-4

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 12/1/04	Date Drilling Completed: 12/2/04	Project Number: 6527.08		
Drilling Firm: Boart Longyear		Drilling Method: Sonic		Surface Elev. (ft) 634.23	TOC Elevation (ft) ---	Total Depth (ft bgs) 25.0	Borehole Dia. (in) 4.25	
Boring Location:				Personnel Logged By - J.D. Driller - J. Weeks		Drilling Equipment: Sonic		
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 12/2/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 10 After Drilling: Date/Time				
NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	COMMENTS
				PID (PPM)				
1 CS	75			Sand w/ few gravel, damp, loose, looks like foundry sand (Fill), black (10 YR 2/1)		SW		
				Gravely Clayey Silt Dark yellowish brown, (10 YR 4/4)				
2 CS	100		5	No Recovery		ML		
				Sandy Gravel gravel ~ 40% Yellowish brown (10 YR 5/4)				
3 CS	80		10	Sand Coarse, damp to wet, brown (10 YR 4/3)		SP		
				Gravel w/ clayey sand silt matrix, dry, brown to gray, very stiff				
4 CS	83		15	Sandy Gravel w/ little silt; become damp to moist, grayish brown (10 YR 5/2)		GM		
				No Recovery				
5 CS	67		20	Sandy Gravel w/ trace silt Very slight odor, no oil in soil test kit, no free product was measured after 15 minutes.		GW		38.2
				No Recovery				
6 CS	60		25	Sandy Gravel w/ trace silt Very slight odor, no oil in soil test kit, no free product was measured after 15 minutes.		GW		8.5
				Sandy Gravel as above, very soupy sample.				
7 CS	60		30	No Recovery		GW		38.4
				No Recovery				
				EOB 25.0'		SW		50.7



SOIL BORING LOG

BORING NO. CB-5

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 12/2/04	Date Drilling Completed: 12/2/04	Project Number: 6527.08				
Drilling Firm: Boart Longyear		Drilling Method: Sonic		Surface Elev. (ft) 633.57	TOC Elevation (ft) ---	Total Depth (ft bgs) 20.0	Borehole Dia. (in) 4.25			
Boring Location:				Personnel Logged By - J.D. Driller - J. Weeks		Drilling Equipment: Sonic				
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 12/2/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 8 After Drilling: Date/Time						
NUMBER AND TYPE	SAMPLE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
					1 CS	90				
2 CS	90	4	No Recovery	GM	197					
3 CS	50	6	As above, Fill w/ plastic and brick debris No significant product in oil-in-soil sample from 6.8'	GM	1296					
4 CS	83	8	No Recovery Visible dark brown product on angular gray gravel (building footing backfill?) from 8.2 to 8.8'	GM	75.3					
5 CS	83	10	Sandy gravel w/ little silt and trace clay, Gray 10 YR 5/1 Product smells like gasoline. Oil in soil test showed a little product in soil from 9-9.5' No recovery from 9.5-12.0'	GM	2380					
6 CS	50	12	Sandy Gravel w/ little silt, very dark gray 10 YR 3/1, Only a sheen, no measurable free product. Oil-in-soil sample from 14' shows presence of product (smear zone).	GM	733					
		14	No Recovery	GW	278					
		16	Gravel fine, very coarse sand, very dark gray 5 YR 3/1, saturated No product measured with outer casing set at 15.0' No product measured with outer casing set at 18.0' Product present in oil in soil kit at 17.0'	GW						
		18	No Recovery	GW						
		20	As above, slight odor No free product in oil in soil test sample from 18.5'. No Recovery EOB 20.0'	GW						

SOIL BORING WELL CONSTRUCTION LOG **PRECONSTRUCTION: BORINGS.GPJ** **RMT: CORP.GDT** **1/18/95**

Signature:

Firm: BMT, Inc.

HWT, Inc. 616-975-5415
2025 E. Beltline Ave. Suite 402 Grand Rapids, MI 49546 Fax 616-975-1098

616-975-5415

Checked By: JJD/JD



SOIL BORING LOG

BORING NO. CB-6

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 12/2/04	Date Drilling Completed: 12/2/04	Project Number: 6527.08				
Drilling Firm: Boart Longyear		Drilling Method: Sonic	Surface Elev. (ft) 631.35	TOC Elevation (ft) —	Total Depth (ft bgs) 18.0	Borehole Dia. (in) 4.25			
Boring Location:			Personnel Logged By - J.D. Driller - J. Weeks	Drilling Equipment: Sonic					
Civil Town/City or Village: Wharton		County: Morris	State: New Jersey		Water Level Observations: While Drilling: Date/Time 12/2/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 6 After Drilling: Date/Time				
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	60		0	Topsoli w/ roots, 6.0"					CS= Continuous Sample
			2	Gravelly Clayey Silthoplastic, friable, Dark yellowish brown 10 YR 4/4		ML			
			4	No Recovery					
			6	As above. Becomes saturated at 6.0'. Strong odors start at about same depth, although oil-in-soil kit shows no significant product at 5.5' and 7.5' soils is more rocky @ 6.0' and turns black in color (10 YR 1/1). Odors very strong at 8.0'		ML		37	
2 CS	90		8	Gray clayey silt w/ about 20% gravel. Oil in soil test shows product in fines at 9.5 feet.		ML		9024	
			10	No Recovery				3333	
			12	Gray clayey sandy silt w/ about 20% gravel. Oil-in-soil test shows a little product in finer soils from 11.5'.		ML		393	
3 CS	30		14	No Recovery					
4 CS	30		16	Sandy gravel no odor; no significant staining in oil-in-soil sample from 15.5'.		GW	O	No measurable product when outer casing was advanced to 15.0'	
			18	No Recovery					
			20	EOB 18.0'					



SOIL BORING LOG

BORING NO. CB-7

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 12/2/04	Date Drilling Completed: 12/2/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear		Drilling Method: Sonic		Surface Elev. (ft) 629.29	TOC Elevation (ft) ---	Total Depth (ft bgs) 13.0	Borehole Dia. (in) 4.25		
Boring Location:				Personnel Logged By - J.D. Driller - J. Weeks		Drilling Equipment: Sonic			
Civil Town/City or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 12/2/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 5 After Drilling: Date/Time					
SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USGS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)								
1 CS	80			Clayey Siltblack organic w/ roots		ML			CS= Continuous Sampling
				Gray sandy gravel fill		GW	O		
				Clayey Silty GravBlack, w/ solvent odor		GC	O		
				Sandy Gravel grayish black, wet, slight odor; little product in oil-in-soil sample from 4'		GC	O		
				No Recovery					
2 CS	60			Silty Sandy Gravel grayish black, saturated Solvent odor evident; oil in soil shows no significant product at 6'.		GM	O		3300 86.8 1176 3527
				Oil-in-soil sample shows significant free product in sample from 7.5'.		GM	O		
				No Recovery					
				Silty Sandy Gravel faint odor, no significant oil in soil staining at 11.5'		GM	O		
				No Recovery					
3 CS	50			EOB 13.0'					404 No measurable product @ 10' with outer casing to 10' after boring hole



SOIL BORING LOG

BORING NO. CB-8

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 12/2/04	Date Drilling Completed: 12/2/04	Project Number: 6527.08				
Drilling Firm: Boart Longyear		Drilling Method: Sonic	Surface Elev. (ft) 629.11	TOC Elevation (ft) ---	Total Depth (ft bgs) 13.0	Borehole Dia. (in) 4.25			
Boring Location:			Personnel Logged By - J.D. Driller - J. Weeks		Drilling Equipment: Sonic				
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey		Water Level Observations: While Drilling: Date/Time 12/2/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 5 After Drilling: Date/Time				
SAMPLE		BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE	RECOVERY (%)								
1 CS	30		2	Asphalt Sandy Gravelly Claybrown 10 YR 4/3, mod. plastic		CL			
				No Recovery					
2 CS	48		6	Clayey Silty Sand/ some gravel, 10 YR 2/1, black, Wet to Saturated Solvent odor @ 6'; oil in soil has just a little product at 6'. No odor at 7.4'.		SM		457	32
				No Recovery					
3 CS	67		10	Sandy Gravel no odors, no oil in soil staining in the 11' sample; Double cased to 10' only.		GW		11.7	
				No Recovery					
				EOB 13.0'					

SOIL BORING WELL CONSTRUCTION LOG PRECONSTRUCTION BORINGS.GPJ RMT CORP.GDT 1/16/05

Signature:	Firm: RMT, Inc. 2025 E. Beltline Ave. Suite 402 Grand Rapids, MI 49546 Fax 616-975-1098	616-975-5415
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Checked By: JJD/AQ



SOIL BORING LOG

BORING NO. CB-9

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 12/3/04	Date Drilling Completed: 12/3/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear		Drilling Method: Sonic		Surface Elev. (ft) 631.58	TOC Elevation (ft) ---	Total Depth (ft bgs) 19.0	Borehole Dia. (in) 4.25		
Boring Location:				Personnel Logged By - J.D. Driller - J. Weeks		Drilling Equipment: Sonic			
Civil Town/City or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 12/3/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 7 After Drilling: Date/Time					
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	80			Fill Brown silty sand		SM			4187 CS= Continuous Sample
				FILL Turquoise blue process waste, heavy solvent odor Silty Clay with some gravel (Fill); no odors		CL			
				No Recovery					
2 CS	100			Silty Clay with some gravel (Fill); damp, no odors		CL			407 Only water in hole (no product) when open holed to 10.0'.
				Gray Clay wet, smells of solvent (7-7.8') 7.8-8.8 Rock (boulder), Black stained (10 YR 2/1), slight odor		CL			
				Sandy Gravel wet, Black stained (10 YR 2/1), slight odor		GW			
3 CS	93			No Recovery Rock					291 No product measure in hole at 13.0', but some process waste seems to be smeared on inside of outer casing. No product in hole. No significant product evident in oil-in-soil samples from 11, 13, 14, and 17 feet.
				Very little pink in oil in soil. Orange to black silty clayey sand w/ slight solvent odor					
4 CS	70			No Recovery					197 No product evident in oil-in-soil samples from 11, 13, 14, and 17 feet.
				Gravel very coarse, sandy, little to trace silt, slight solvent odor As above		GW			
5 CS	75			No product, slight solvent odor		GW			50 No product evident in oil-in-soil samples from 11, 13, 14, and 17 feet.
				No Recovery					
6 CS	33			Gravel very coarse, sandy, little to trace silt, slight solvent odor; inner casing only 16-19'		GW			
				No Recovery					
7 CS	33			EOB 19.0'					



SOIL BORING LOG

BORING NO. CB-10

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 12/3/04	Date Drilling Completed: 12/3/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear		Drilling Method: Sonic		Surface Elev. (ft) 633.11	TOC Elevation (ft)	Total Depth (ft bgs) 25.0	Borehole Dia. (in) 4.25		
Boring Location:				Personnel Logged By - J.D. Driller - J. Weeks		Drilling Equipment: Sonic			
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey		Water Level Observations: While Drilling: Date/Time 12/3/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 9 After Drilling: Date/Time				
SAMPLE	NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS		80			Fill Brown sandy gravel	GW	O		
					Concrete		///		
					No Recovery		///		
2 CS		100			Sandy gravelw/ little silt, moist, no odor, brown	GP	O		
3 CS		83			Sandy Gravelw/ cobble, gray, moist to wet	GP	O		5.6
					Same as Above, Diesel odor	GP	O		208
					No Recovery				
4 CS		73			Sandy Gravel gray, gravel coated w/ grayish clayey slime, a little greater diesel odor. Significant product in oil-in-soil sample from 12'.	GP	O		
					Diesel odor.	GP	O		
					No Recovery				
5 CS		73			Significant product in oil-in-soil sample from 15.2'. Diesel odor.	GP	O		100
					No Recovery				
6 CS		73			Gravelw/ some sand, less product, smells like diesel Product apparent in oil in soil sample from 18.0'	GW	O		56
					No Recovery				
7 CS		67			Gravel no significant product staining in oil in soil test from 20'	GW	O		5.6
					No Recovery				
8 CS		67			Sand very coarse, fine pea gravel, 10 YR 5/1 no oil in soil coloration at all in sample from 23'.	SW	O		0.6
					No Recovery				
					EOB 25.0'				

SOIL BORING WELL CONSTRUCTION LOG PRECONSTRUCTION BORINGS (GP) RMT CORP GDT 1/16/05

Signature:	Firm: RMT, Inc. 2025 E. Beltline Ave. Suite 402 Grand Rapids, MI. 49546 Fax 616-975-1098	616-975-5415
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Checked By: JJD/JD



SOIL BORING LOG

BORING NO. CB-11

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 12/3/04	Date Drilling Completed: 12/3/04	Project Number: 6527.08		
Drilling Firm: Boart Longyear	Drilling Method: Sonic		Surface Elev. (ft) 633.58	TOC Elevation (ft) ---	Total Depth (ft bgs) 19.0		
Boring Location:			Personnel Logged By - J.D. Driller - J. Weeks	Drilling Equipment: Sonic	Borehole Dia. (in) 4.25		
Civil Town/City/or Village: Wharton	County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 12/3/04 00:00 After Drilling: Date/Time	Depth (ft bgs) 9.5 Depth (ft bgs)			
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	75		Asphalt Clayey Silt w/ gravel, brown, med. plastic; mixed with black sand to gray sandy gravel	ML			CS= Continuous Sample
		2	No Recovery				
2 CS			Concrete				
		4					
		6					
		8	Sandy Gravel dark brown, (fill), dry Brick from 8.5-9'	GW			
3 CS	50		<input checked="" type="checkbox"/> No Recovery				
		10	Sandy Gravel black, (Fill), w/ brick fragments, then gray gravel w/ little silt to 13 ft., wet, gasoline odor. Oil-in-soil sample shows significant product at 13' in fine-grained matrix.	GW			
4 CS	100						
		12					
		14	Sandy Gravel w/ trace gray silt, gas smell Oil-in-soil test shows significant product at 15'.	GW			
5 CS	93						
		16	<input checked="" type="checkbox"/> No Recovery Gravel w/ little sand, no odor No oil in soil staining in sample of fines from 17'.	GW			3997
6 CS	50						
		18	<input checked="" type="checkbox"/> No Recovery				2989
			EOB 19.0'				97.3



SOIL BORING LOG

BORING NO. CB-12

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 12/3/04	Date Drilling Completed: 12/3/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear		Drilling Method: Sonic	Surface Elev. (ft) 628.05	TOC Elevation (ft) --	Total Depth (ft bgs) 16.0	Borehole Dia. (in) 4.25			
Boring Location:				Personnel Logged By - J.D. Driller - J. Weeks	Drilling Equipment: Sonic				
Civil Town/City or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 12/3/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 10 After Drilling: Date/Time					
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	60			Silty Clayblack, organic, mod plastic, damp to 2.4', roots, rock w/ pinkish dust 2.4-3'		OH		14.4	CS= Continuous Sample
			2	No Recovery					
2 CS	80		4						
			6	Clay, saturated, dark gray, slight odor, no staining in oil-in-soil samples from 6 and 8'.		CL		693	
			8	Clay, moist, gray, med. plastic, slight odor, slight staining in oil-in-soil test kit indicates presence of significant product within smear zone at 9'.		CL		70.9	
			10	Clayey Sand		SC		3661	
			12	No Recovery					
3 CS	40		14	Sandy Gravel gray w/ a little to trace silt, no staining in oil in soil sample from 11', saturated		GM		63.9	
			16	No Recovery					
4 CS	67		18	Sandy Gravel w/ little to trace silt, no odor		GM		2.1	
				EOB 16.0' Inner casing 13-16' Outer casing 13'					



SOIL BORING LOG

BORING NO. B-1

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/8/04	Date Drilling Completed: 11/8/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear		Drilling Method: Mini Sonic		Surface Elev. (ft) 634.82	TOC Elevation (ft)	Total Depth (ft bgs) 17.5	Borehole Dia. (in) 4.25		
Boring Location:				Personnel Logged By - C.B. Driller -		Drilling Equipment Mini Sonic			
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/8/04 00:00 □ Depth (ft bgs) 10 After Drilling: Date/Time 11/8/04 00:00 □ Depth (ft bgs) 10.2					
SAMPLE	NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS		85		Topsoil Fill Sand, crushed asphalt, crushed limestone, dark brown (7.5 YR 3/4), moist, soft		SP			CS= Continuous sample
				2					
				4	Clay, plastic, reddish brown (5YR 4/4), organic odor, moist, stiff		CL		
2 CS		20		No Recovery					
				6	Gravel with sand and silt, strong brown (7.5 YR 4/6), organic odor, moist, medium		GP-GM		
				6	Gravel with rock flows, white (10YR 8/1), No odor, dry, loose No Recovery		GW		
3 CS		80		10	Gravel with 45% clay, with some sand and silt, dark gray (10YR 4/1), strong odor, dry, loose, trace cobbles, wet and stronger odor at 11.0'		GP-GM	161 346 517	17.6 Reading from hot humid sample (No Odor)
				12	No Recovery				
				14	Same as Above Strong Odor		GP-GM		
4 CS		80		16	No Recovery		GP-GM	1650 921 2000	
				16	Same as above.				
				18	No Recovery		GP-GM		
EOB 17.5'									



SOIL BORING LOG

BORING NO. B-2

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/8/04	Date Drilling Completed: 11/8/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear	Drilling Method: Mini Sonic		Surface Elev. (ft) 634.9	TOC Elevation (ft) ---	Total Depth (ft bgs) 15.0	Borehole Dia. (in) 4.25			
Boring Location:				Personnel Logged By - D.D. Driller -	Drilling Equipment: Mini Sonic				
Civil Town/City/or Village: Wharton	County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/8/04 00:00 ▽ Depth (ft bgs) 10.5 After Drilling: Date/Time 11/8/04 00:00 ▽ Depth (ft bgs) 9.9						
SAMPLE	NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS		80		2	Sand Fine- Coarse, some gravel, some silt, black	SW-SM			
				4	Silty F-C Sand and F-C gravel, moist, cohesive, tan	SW-SM			
				6	F-C Sand, F-C gravel, little silt	SW-SM			
				8	No Recovery				
2 CS		60		10	F-C Sand, coarse gravel, gray, brown, loose, dry, loose	SW		4.2	
				12	F-C Sand and F-M gravel, silty	SW-SM		25	
				14	No Recovery				
				16	▼ F-C Sand and F-C gravel, gray brown, loose, wet, xylene odor	SW		8.4	
3 CS		50		18	Heavy odor of Xylene	SW		487	1205
					No Recovery			895	
					EOB 15.0'				



SOIL BORING LOG

BORING NO. B-3

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 11/9/04	Date Drilling Completed: 11/9/04	Project Number: 6527.08				
Drilling Firm: Boart Longyear	Drilling Method: Mini Sonic		Surface Elev. (ft) 634.49	TOC Elevation (ft) ---	Total Depth (ft bgs) 20.0	Borehole Dia. (in) 4.25			
Boring Location:			Personnel Logged By - D.D. Driller -		Drilling Equipment: Mini Sonic				
Civil Town/City/or Village: Wharton	County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/9/04 00:00 ▽ Depth (ft bgs) 10 After Drilling: Date/Time						
SAMPLE	NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS		80		2	Misc. Fill F-C Sand, F-C Gravel, w/ cobbles, Red Brown to Gray at depth	SW		1.6	CS= Continuous Sample
				4	Fill Changes to mixed gray color w/ some silt	SP-SM			
				6	No Recovery	GM			
				8	Sandy Gravel some silt, some silt, yellow brown, moist	GP			
2 CS		60		10	Silty Sandy Gravel fine to coarse sand and gravel, some silt, yellow brown, moist.	GM		30.7 45.5 217 67	1.6
				12	Cobbles some fine gravel, little silt, dry, light gray	GP			
				14	No Recovery	GM			
				16	Silty Sandy Gravel fine to coarse sand and gravel, silt, damp, brown/gray (slough)	GM			
3 CS		50		18	No Recovery	GP		672 473	No product a little sheen
				20	Silty Sandy Gravel fine to coarse sand and gravel, silt, damp, brown/gray (slough)	GM			
				EOB 20.0'					

SOIL BORING WELL CONSTRUCTION LOG PRECONSTRUCTION BORINGS.GPJ RMT CORP.GDT 11/2005

Signature:

Firm: RMT, Inc.

2025 E. Beltline Ave. Suite 402 Grand Rapids, MI 49546 Fax 616-975-1098

616-975-5415

Checked By: JJD/JD



SOIL BORING LOG

BORING NO. B-4

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 11/9/04	Date Drilling Completed: 11/9/04	Project Number: 6527.08		
Drilling Firm: Boart Longyear	Drilling Method: Mini Sonic		Surface Elev. (ft) 635.98	TOC Elevation (ft) ---	Total Depth (ft bgs) 20.0		
Boring Location:			Personnel Logged By - D.D. Driller -	Drilling Equipment: Mini Sonic			
Civil Town/City/or Village: Wharton	County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/9/04 00:00 After Drilling: Date/Time 11/9/04 00:00	Depth (ft bgs) 12 Depth (ft bgs) 11.3			
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	80	2 4 6 8 10 12 14 16 18 20	Misc. Fill c/o F-C sand, F-M gravel, silt, brick fragments, dark red-brown, loose, no odor No Recovery Transition to dark brown color F-C Sand, silt, embedded gravel, moist, cohesive, mottled, tan-brown F-C Sand and F-C gravel, little silt, cobbles, dry, gray/brown, no odor No Recovery Clayey Silty Sandstone to coarse sand with silt, damp to wet, plastic, brown Sand and Gravel F-C grained, little silt, loose, dry Same as above but with pulverized rock present and no silt. Sand and Gravel F-M grained, little silt, silver-gray, strong odor Gravel fine to coarse grained with little sand, dry, gray No Recovery Silty Sandy Gravel fine to coarse sand and gravel with some silt, gray, saturated, strong odor, possible slough from above No Recovery EOB 20.0'	SW-SM SW-SM SW-SM SW-SM SM SW SW SW GM	33.3 12.8 2.1 130 30.5 13 59.7		CS= Continuous Sample Slight Sheen on Free Water

SOIL BORING WELL CONSTRUCTION LOG PRECONSTRUCTION BORINGS GRU RMT CORP GDT 1/3/05

Signature:	Firm: RMT, Inc. 2025 E. Beltline Ave. Suite 402 Grand Rapids, MI 49546 Fax 616-975-1098	616-975-5415
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SOIL BORING LOG

BORING NO. B-5

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/9/04	Date Drilling Completed: 11/9/04	Project Number: 6527.08				
Drilling Firm: Boart Longyear		Drilling Method: Mini Sonic	Surface Elev. (ft) 633.46	TOC Elevation (ft) ---	Total Depth (ft bgs) 20.0	Borehole Dia. (in) 4.25				
Boring Location:				Personnel Logged By - D.D. Driller -	Drilling Equipment Mini Sonic					
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/9/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 10 After Drilling: Date/Time 11/9/04 00:00 <input type="checkbox"/> Depth (ft bgs) 9						
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS	
1 CS	80		2	F-C Sand, silt, some fine gravel, brown, moist		SW-SM		10.3	5.6	CS= Continuous Sample
				Same as Above w/ cobbles, stone fragments		SW-SM				
2 CS	60		4	No Recovery				13.7	4.4	30.5
				F-C Sand, silt, little gravel, dark brown		SW-SM				
3 CS	50		6	F-C Gravel and cobbles, some F-C sand, gray, dry		GW		6.6	Poor recovery slight evidence of sheen	
				No Recovery		GW				
4 CS	20		8	Same as above but siltier, moist, silver color, slight odor Cobbles		GW-GM		13.7	4.4	30.5
				F-C Sand and F-C gravel, silt, cobbles, wet; slight odor		SW-SM				
			10	No Recovery						
			12	F-C Sand and F-M gravel, saturated, soupy mix (slough)		SW-SM				
			14	No Recovery						
			16	No Recovery		SW-SM				
			18							
			20	EOB 20.0'						



SOIL BORING LOG

BORING NO. B-6

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/9/04	Date Drilling Completed: 11/9/04	Project Number: 6527.08			
Drilling Firm: Boat Longyear		Drilling Method: Mini Sonic	Surface Elev. (ft) 633.93	TOC Elevation (ft) ---	Total Depth (ft bgs) 20.0	Borehole Dia. (in) 4.25			
Boring Location:				Personnel Logged By - D.D. Driller -	Drilling Equipment: Mini Sonic				
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/9/04 00:00 ▽ Depth (ft bgs) 9 After Drilling: Date/Time 11/9/04 00:00 ▽ Depth (ft bgs) 9.4					
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	RBD (PPM)	COMMENTS
1 CS	80			Misc Fill c/o F-C sand and F-C Gravel, brick and building fragments		SW			CS= Continuous Sample
			2						
			4	No Recovery					
			6	Rock Fragments Only					
			8	No Recovery					
2 CS	20		10	F-C Sand and F-C gravel, little silt, loose, gray, moist, very slight odor, silt content increases at depth		SW-SM		3.3 60.9 687	
			12	No Recovery					
			14						
			16						
			18						
3 CS	40		20	No Recovery					
			EOB 20.0'						



SOIL BORING LOG

BORING NO. B-7

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 11/8/04	Date Drilling Completed: 11/8/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear	Drilling Method: Mini Sonic		Surface Elev. (ft) 629.75	TOC Elevation (ft) ---	Total Depth (ft bgs) 20.0			
Boring Location:			Personnel Logged By - D.D. Driller -	Drilling Equipment: Mini Sonic				
Civil Town/City/or Village: Wharton	County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/8/04 00:00 After Drilling: Date/Time 11/8/04 00:00	▽ Depth (ft bgs) 8 ▽ Depth (ft bgs) 5.3				
SAMPLE	NUMBER AND TYPE	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS		80		Topsoil and Fill				CS= Continuous Sample 9 5.3 0.3 41.6 1385 450 1270 308
			2	F-C Sand, silt, little gravel, red brown, moist	SW-SM			
			4	F-M Sand, silt, plastic, moist, brown changes to mottled gray-brown and more plastic	SW-SM			
			6	No Recovery				
			7	▼ F-C Sand, F-C gravel, some silt, black	SW-SM			
			8	F-C Sand and F-C gravel, little silt, gray, loose, dry	SW-SM			
			10	Same as Above w/ more silt, wet	SW-SM			
			12	No Recovery	SW-SM			
			14	Same as Above, (Slough), odor	SW-SM			
			16	Cobbles F-C sand, F-C gravel, gray, only slight odor	GW			
2 CS		70	18	No Recovery				
3 CS		40	20	No Recovery				
4 CS		0		EOB 20.0'				



SOIL BORING LOG

BORING NO. B-8

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 11/9/04	Date Drilling Completed: 11/9/04	Project Number: 6527.08			
Drilling Firm: Boat Longyear	Drilling Method: Mini Sonic		Surface Elev. (ft) 630.19	TOC Elevation (ft) —	Total Depth (ft bgs) 20.0	Borehole Dia. (in) 4.25		
Boring Location:			Personnel Logged By - D.D. Driller -		Drilling Equipment Mini Sonic			
Civil Town/City/or Village: Wharton	County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/9/04 00:00 □ Depth (ft bgs) 9 After Drilling: Date/Time NA					
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	80		2	Misc. Fill c/o sand, gravel, some silt, brick fragments, dark brown/gray	SW-SM		5.9	CS= Continuous Sample
			4	Cobble Layer				
			6	No Recovery				
2 CS	80		8	Misc. Fill c/o F-C sand, F-C gravel, silt and cobbles	SW-SM		31.8	
			10	Process Waste rainbow colored	GP		845	
			12	F-C Sand fine gravel, loose, gray/silver, moist, odor No Recovery	SW		732	
3 CS	30		14	F-C Sand very loose and fine gravel, silver/gray, strong odor, moist Cobble Layer	SW		1378	
			16	F-C Sand and F-C gravel, silty, moist-damp No Recovery	SW-SM		1359	
4 CS	30		18	Appears to be slough from above collapsed into open hole.	SW		987	
			20	No Recovery EOB 20.0'			1036	



SOIL BORING LOG

BORING NO. B-9

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/9/04	Date Drilling Completed: 11/9/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear		Drilling Method: Mini Sonic		Surface Elev. (ft) 629.94	TOC Elevation (ft) ---	Total Depth (ft bgs) 15.0	Borehole Dia. (in) 4.25		
Boring Location:				Personnel Logged By - D.D. Driller -		Drilling Equipment: Mini Sonic			
Civil Town/City or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/9/04 00:00 ▼ Depth (ft bgs) 10 After Drilling: Date/Time 11/9/04 00:00 ▼ Depth (ft bgs) 5					
SAMPLE	NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	80			1	Topsoil and organics, moist, brown, F-M sand, trace gravel	OH		1.4	CS= Continuous Sample
				2	F-C Sand, silt, some gravel, cohesive plastic	SW-SM			
				4	F-M Sand and F-C gravel, little silt Lenses of siltier sand and gravel cohesive, stiff mottled gray/dark brown	SW-SM			
				6	No Recovery				
2 CS	60			7	F-M Sand and silt, some embedded gravel, dark brown-black, cohesive, some odor	SW-SM		3	7.3
				8	F-C Sand and F-C gravel, little silt, cobbles, loose, gray, odor	SW-SM			
				10	No Recovery				
				12	Slough	SW			
3 CS	40			13	F-C Sand and F-C gravel, cobbles, gray, dry, no odor	SW		214 19 16.2 2.4	
				14	No Recovery				
				16	EOB 15.0'				
				18					

SOIL BORING WELL CONSTRUCTION LOG PRECONSTRUCTION BORINGS.GPJ RMT CORP.GDT 1/2005

Signature:

Firm: RMT, Inc.

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616-975-5415

Checked By: JJD/JO



SOIL BORING LOG

BORING NO. B-10

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 11/9/04	Date Drilling Completed: 11/9/04	Project Number: 6527.08				
Drilling Firm: Boart Longyear	Drilling Method: Mini Sonic		Surface Elev. (ft) 627.54	TOC Elevation (ft) ---	Total Depth (ft bgs) 15.0				
Boring Location:			Personnel Logged By - D.D. Driller -	Drilling Equipment Mini Sonic					
Civil Town/City/or Village: Wharton	County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time After Drilling: Date/Time	11/9/04 00:00	Depth (ft bgs) 5 Depth (ft bgs)				
SAMPLE	NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS		80		2	Topsoll and organics, silty sand				CS= Continuous Sample
				4	Sandy Clayey F-C Gravel mostly cobbles, gray, slight odor	GC		9.2	
				6	No Recovery			554	
2 CS		60		8	F-C Sandand F-C gravel, silt, cobbles, saturated, gray, odor	GW-GM		230	
				10	F-C Sand, gray, saturated, loose, plastic, slight odor	SC		610	
				12	F-C Sandand F-C gravel, saturated, silver-gray	GC		1002	
				14	F-C Sandand silt, dense, some gravel	SM			
3 CS		50		16	No Recovery			862	Some Product and Sheen
				18	EOB 15.0'			85	



SOIL BORING LOG

BORING NO. B-11

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/9/04	Date Drilling Completed: 11/9/04	Project Number: 6527.08		
Drilling Firm: Boart Longyear	Drilling Method: Mini Sonic		Surface Elev. (ft) 627.14	TOC Elevation (ft) ---	Total Depth (ft bgs) 10.0	Borehole Dia. (in) 4.25		
Boring Location:				Personnel Logged By - D.D. Driller -	Drilling Equipment: Mini Sonic			
Civil Town/City/or Village: Wharton	County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/9/04 00:00 ▽ Depth (ft bgs) 4 After Drilling: Date/Time 11/9/04 00:00 ▽ Depth (ft bgs) 2.4					
SAMPLE	NUMBER AND TYPE	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	80		2	Topsill and organics, brown	OH		1.5	CS= Continuous Sample
			4	Clayey Silt with F-C sand and F-M gravel; plastic, moist, dark brown More cobbles present, moist, gray, very slight odor	ML		0.8	
			6	No Recovery	ML		11.2	
2 CS	40		8	Becomes siltier, plastic F-C Sand and F-C gravel, some silt, saturated, silver gray, some odor	GC		34	
			10	No Recovery	SW-SM		170	Very slight sheen
			12	EOB 10.0'				
			14					
			16					
			18					

SOIL BORING WELL CONSTRUCTION LOG: PRECONSTRUCTION BORINGS, GPJ RMT CORP.GDT 1/2005

Signature:

Firm: RMT, Inc.

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SOIL BORING LOG

BORING NO. B-12

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 11/8/04	Date Drilling Completed: 11/8/04	Project Number: 6527.08				
Drilling Firm: Boart Longyear	Drilling Method: Mini Sonic		Surface Elev. (ft) 628.23	TOC Elevation (ft) ---	Total Depth (ft bgs) 15.0				
Boring Location:			Personnel Logged By - D.D. Driller -	Drilling Equipment: Mini Sonic					
Civil Town/City/or Village: Wharton	County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/8/04 00:00 After Drilling: Date/Time	Depth (ft bgs) 5					
SAMPLE	NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	80	80	80	0	Silty Sand F-C, some gravel	SM			CS= Continuous Sample
				2	Silty Clayey Sand and gravel, very silty, no odor, (Fill)	GC			
				4	Same as Above w/ cobbles, dark brown	GC			
				4	No Recovery				
				6	Same as Above w/ more silt, soft, wet	SM			
				6	Transition to cobbly F-C sand and coarse gravel, silty, gray, no product, strong xylene odor	SM			
				8	No Recovery				
				10	F-C Sand and F-M gravel, wet, loose, light gray, slight odor	GW			
				12	No Recovery				
				15.0'	EOB 15.0'				

SOIL BORING WELL CONSTRUCTION LOG PRECONSTRUCTION BORINGS GPJ RMT CORP. BDT 11/8/05

Signature:

Firm: RMT, Inc.

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SOIL BORING LOG

BORING NO. B-13

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 11/8/04	Date Drilling Completed: 11/8/04	Project Number: 6527.08				
Drilling Firm: Boart Longyear		Drilling Method: Mini Sonic	Surface Elev. (ft) 631.93	TOC Elevation (ft) ---	Total Depth (ft bgs) 15.0	Borehole Dia. (in) 4.25			
Boring Location:			Personnel Logged By - D.D. Driller -		Drilling Equipment Mini Sonic				
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey		Water Level Observations: While Drilling: Date/Time 11/8/04 00:00 ▽ Depth (ft bgs) 8 After Drilling: Date/Time 11/8/04 00:00 ▽ Depth (ft bgs) 7.1				
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	80			Topsoil					CS= Continuous Sample 2.3 48 1067 540
				F-C Sand and F-C gravel, silty, brown		SW-SM			
				F-M Sand, little silt, loose, red brown, dry (Probably Fill)		SP-SM			
				No Recovery					
2 CS	20			F-C sand and F-C gravel w/ cobbles		SW-SM			
				No Recovery		SW-SM			
				▼ ▽ Boulder Zone at 8.0'; No Recovery					
				No Recovery		SW-SM			
3 CS	50			F-C Sand and F-C gravel, silty, gray Strong Odor		GM			
				No Recovery					
				EOB 15.0'					
				16 18					

SOIL BORING WELL CONSTRUCTION LOG PRECONSTRUCTION BORINGS GRU RMT CORP GDT 1/3/05

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SOIL BORING LOG

BORING NO. B-14

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings			Date Drilling Started: 11/8/04	Date Drilling Completed: 11/8/04	Project Number: 6527.08	
Drilling Firm: Boart Longyear		Drilling Method: Mini Sonic	Surface Elev. (ft) 625.59	TOC Elevation (ft) ---	Total Depth (ft bgs) 8.0	
Boring Location:			Personnel Logged By - D.D. Driller -		Drilling Equipment: Mini Sonic	
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey		Water Level Observations: While Drilling: Date/Time 11/8/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 3 After Drilling: Date/Time	
SAMPLE		DEPTH IN FEET	LITHOLOGIC DESCRIPTION			
NUMBER AND TYPE	RECOVERY (%)		BLOW COUNTS	USCS	GRAPHIC LOG	RID (PPM)
1 CS	80		SW-SM		19.4	CS= Continuous Sample
		2				
		4	SW-SM		4.7	
		6	SW-SM		24	
2 CS	83		SW-SM		92	
		8	SW-SM			
		10				
		12				
		14				
		16				
		18				



SOIL BORING LOG

BORING NO. B-15

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/8/04	Date Drilling Completed: 11/8/04	Project Number: 6527.08				
Drilling Firm: Boat Longyear		Drilling Method: Mini Sonic		Surface Elev. (ft) 627.02	TOC Elevation (ft) ---	Total Depth (ft bgs) 8.0	Borehole Dia. (in) 4.25			
Boring Location:				Personnel Logged By - D.D. Driller -		Drilling Equipment: Mini Sonic				
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/8/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 3 After Drilling: Date/Time						
SAMPLE	NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET		LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS		80		2		Topsoil and roots Sand and Gravel F-C grained, some silt, brown	OH			CS= Continuous Sample
				4		More cobbles present, slight odor, wet	SW-SM		11	
2 CS		83		6		No Recovery	SW		5.5	
				8		Same as Above No Recovery EOB 8.0'	SW			
				10						
				12						
				14						
				16						
				18						

SOIL BORING WELL CONSTRUCTION LOG PRECONSTRUCTION BORINGS.GPJ RMT.CORP.GDT 11/8/05

Signature:	Firm: RMT, Inc. 2025 E. Beltline Ave. Suite 402 Grand Rapids, MI 49546	616-975-5415 Fax 616-975-1098
------------	---	----------------------------------

Checked By: JJD/JD



SOIL BORING LOG

BORING NO. B-16

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/9/04	Date Drilling Completed: 11/9/04	Project Number: 6527.08			
Drilling Firm: Boat Longyear		Drilling Method: Mini Sonic	Surface Elev. (ft) 629.58	TOC Elevation (ft) ---	Total Depth (ft bgs) 15.0	Borehole Dia. (in) 4.25			
Boring Location:			Personnel Logged By - D.D. Driller -	Drilling Equipment: Mini Sonic					
Civil Town/City/or Village: Wharton	County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/9/04 00:00 After Drilling: Date/Time	Depth (ft bgs) 5	Depth (ft bgs)				
SAMPLE	NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS		80		2	F-C Sand some F-C gravel, silty, brown/ tan, loose	SW-SM			CS= Continuous Sample
				4	No Recovery				
				6	F-C Sand and F-C gravel, silt, wet, black, slight odor	SW-SM		7	
2 CS		60		8	F-C Sand and F-C gravel, some silt, gray, moist, cohesive, odor Same as Above, looser, black, odor	SW-SM		28	
				10	No Recovery				
				12					
3 CS		20		14					
				16	EOB 15.0'				
				18					



SOIL BORING LOG

BORING NO. B-17

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/9/04	Date Drilling Completed: 11/9/04	Project Number: 6527.08									
Drilling Firm: Boart Longyear		Drilling Method: Mini Sonic		Surface Elev. (ft) 633.09	TOC Elevation (ft) ---	Total Depth (ft bgs) 20.0	Borehole Dia. (in) 4.25								
Boring Location:				Personnel Logged By - D.D. Driller -		Drilling Equipment: Mini Sonic									
Civil Town/City or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/9/04 00:00 ▽ Depth (ft bgs) 8 After Drilling: Date/Time 11/9/04 00:00 ▽ Depth (ft bgs) 8.4											
NUMBER AND TYPE	SAMPLE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS					
1 CS	80				Topsoil and organic material	OH				CS= Continuous Sample					
					Fill comprised of silt, sand, gravel, loose, dark rusty brown	GM									
					Transition to mottled grayish rust color, silty, fill	GM									
					No Recovery										
2 CS	80				F-C Sand and F-C gravel, cobbles, some silt, light brown	GM			14.3 313	PID w/ bag with product					
					▽ F-C Sand, some gravel, silty, moist-wet, gray	GM									
					No Recovery										
					3 CS	60								F-C Sand, F-C gravel, some silt, loose, saturated, silver/ gray Heavy odor Free product, smell of kerosene (potential slough from above)	GM
No Recovery															
4 CS	0						Slough from above; No Recovery								
							EOB 20.0'								



SOIL BORING LOG

BORING NO. B-18

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/10/04	Date Drilling Completed: 11/10/04	Project Number: 6527.08			
Drilling Firm: Boart Longyear		Drilling Method: Mini Sonic		Surface Elev. (ft) 629.16	TOC Elevation (ft) ---	Total Depth (ft bgs) 20.0	Borehole Dia. (in) 4.25		
Boring Location:				Personnel Logged By - D.D. Driller -		Drilling Equipment: Mini Sonic			
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/10/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 5 After Drilling: Date/Time					
SAMPLE		DEPTH IN FEET		LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	80		5	Topsoil					CS= Continuous Sample
				F-M Sand and silt w/ trace clay, moist, slightly plastic, light brown		SM			
				F-C Sand and Gravel with cobbles, no odor		GW			
				No Recovery					
				Silty Sand F-M grain, moist, stiff		SM		16.2	
2 CS	80		10	Color grades to a mottled gray/brown, odor		SM		243	
				F-C Sand and F-C gravel, little to some silt, moist, some sheen of soil, strong odor		GM		1261	
				No Recovery				1298	
				F-C Sand and F-C gravel, silt, cobbles, dry (probably slough)		GM		423	
3 CS	35		15	No Recovery				753	
				No Recovery except wet slough				712	
4 CS	0		20	EOB 20.0'				140	



WELL BORING LOG

BORING NO. B-19

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/10/04	Date Drilling Completed: 11/10/04	Project Number: 6527.08				
Drilling Firm: Boart Longyear		Drilling Method: Mini Sonic	Surface Elev. (ft) 626.79	TOC Elevation (ft) —	Total Depth (ft bgs) 10.0	Borehole Dia. (in) 4.25				
Boring Location:				Personnel Logged By - D.D. Driller -	Drilling Equipment: Mini Sonic					
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/10/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 2 After Drilling: Date/Time						
SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION			USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 CS	80			Topsoil and F-M sand, and silt, moist, brown, cohesive			OH			CS= Continuous Sample
			2	Same as above w/ cobbles, less cohesive			SM			
			4	F-C Sand, F-C gravel and cobbles, black, odor			SW		10.1	
			6	No Recovery					127	
			8	F-C Sand and silt, some F-M gravel, soft, no cobbles			SW			
			10	F-C Sand and silt, trace gravel, slightly plastic, damp, mottled gray/ black, odor			SM		71.3	
			12	F-C Sand and F-C gravel, some silt, strong odor, gray			SM		169	
			14	No Recovery			SW		574	
			16	EOB 10.0'						
			18							

SOIL BORING WELL CONSTRUCTION LOG PRECONSTRUCTION BORINGS GPJ RMT CORP GDT 1/28/05

Signature:

Firm: **RMT, Inc.**

616-975-5415

2025 E. Beltline Ave. Suite 402 Grand Rapids, MI 49546-975-1098

Checked By: _____



SOIL BORING LOG

BORING NO. B-20

Page 1 of 1

Facility/Project Name: L.E. Carpenter Preconstruction Borings				Date Drilling Started: 11/10/04	Date Drilling Completed: 11/10/04	Project Number: 6527.08				
Drilling Firm: Boart Longyear		Drilling Method: Mini Sonic		Surface Elev. (ft) 625.07	TOC Elevation (ft) ---	Total Depth (ft bgs) 5.0	Borehole Dia. (in) 4.25			
Boring Location:				Personnel Logged By - D.D. Driller -		Drilling Equipment: Mini Sonic				
Civil Town/City/or Village: Wharton		County: Morris	State: New Jersey	Water Level Observations: While Drilling: Date/Time 11/10/04 00:00 <input checked="" type="checkbox"/> Depth (ft bgs) 1 After Drilling: Date/Time						
SAMPLE		RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION		USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
NUMBER AND TYPE										
1 CS	80			0	Tops soil and organics, gray brown	OH		6.3	CS= Continuous Sample	
				2	<> Silty Sand little gravel, slightly plastic, wet	SW-SM		6.4		
				4	F-C Sand, silt, some fine gravel, wet, plastic, gray, strong odor	SW-SM		65.9		
				6	No Recovery			16.5		
				8	EOB 5.0'					
				10						
				12						
				14						

SOIL BORING WELL CONSTRUCTION LOG PRECONSTRUCTION BORINGS.GPJ RMT CORP.GDT 11/2005

Signature:

Firm: RMT, Inc.

616-975-5415

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Checked By: JJD/JD

APPENDIX B
PCB SAMPLING LABORATORY DATA

TABLE 1
L.E. CARPENTER - WHARTON, NEW JERSEY
NOVEMBER 2004 PCB SOIL RESULTS

The Action Levels listed reflect current STL Edison knowledge of the standards and are intended as general guidance for the user. Please consult appropriate regulations and cleanup standards for your specific application.

Sample ID Lab Sample Number	New Jersey Residential	New Jersey Non - Residential	PCB1104-1A	PCB1104-1B	PCB1104-2A	PCB1104-2B	PCB1104-3A	PCB1104-3B	PCB1104-4A	PCB1104-4B	PCB1104-5A	PCB1104-5B	PCB1104-6A	PCB1104-6B	PCB1104-7A	PCB1104-7B	PCB1104-8A	PCB1104-8B
Sampling Date	Direct Contact	Direct Contact	4403897	4403898	4403899	4403900	4403901	4403902	4403903	4403904	4403905	4403906	4411203	4411204	4411205	4411206	4411207	4411208
Matrix	Soil Cleanup Criteria	Soil Cleanup Criteria																
Depth	5'-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"
Dilution Factor	10	10	1	1	1	1	5	1	20	5	1	1	1	1	1	1	5	1
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
PCBs(1)																		
Aroclor-1016		490	2,000	ND														
Aroclor-1221		490	2,000	ND														
Aroclor-1232		490	2,000	ND														
Aroclor-1242		490	2,000	ND														
Aroclor-1248		490	2,000	ND														
Aroclor-1254		490	2,000	4,500	170	170	130	80	120	560	54	6,200	780	200	49	150	63	800
Aroclor-1260		490	2,000	1,500	66	66	57	42	180	32	780	160	80	20	73	39	270	100
Total PCBs		2,000	2,000	236	236	187	117	182	86	280	69	223	102	370	370	370	370	370

Sample ID Lab Sample Number	PCB1104-9A	PCB1104-9B	PCB1104-10A	PCB1104-10B	PCB1104-11A	PCB1104-11B	PCB1104-12A	PCB1104-12B	PCB1104-13A	PCB1104-13B	PCB1104-14A	PCB1104-14B	PCB1104-15A	PCB1104-15B	PCB1104-16A	PCB1104-16B	PCB1104-17A	PCB1104-17B
Sampling Date	4411209	4411210	4411211	4411212	4403877	4403878	4411213	4411214	4403879	4403880	4403881	4403882	4403883	4403884	4403885	4403886	4403887	4403888
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"	5"-7"	1'5"-17"
Dilution Factor	1	1	1	1	20	5	5	10	1	1	5	2	5	5	5	10	5	5
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
PCBs(1)																		
Aroclor-1016		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254		150	100	58	63	7,800	2,000	780	1,700	ND	1,700	650	820	950	800	4,200	680	590
Aroclor-1260		44	25	38	ND	1,500	450	220	300	ND	ND	440	150	200	140	350	740	210
Total PCBs		194	125	96	63	1,500	450	1,500	1,500	ND	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500

Sample ID Lab Sample Number	PCB1104-16A	PCB1104-16B	PCB1104-19A	PCB1104-19B	PCB1104-20A	PCB1104-20B	PCB1104-21A	PCB1104-21B	PCB1104-22A	PCB1104-22B	PCB1104-23A	PCB1104-23B	PCB1104-24A	PCB1104-24B	PCB1104-25A	PCB1104-25B	PCB1104-26A	PCB1104-26B
Sampling Date	4411215	4411216	4411217	4411218	4411219	4411220	4411221	4411222	4403889	4403890	4403891	4403892	4403893	4403894	4403895	4403896	4403897	4403898
Matrix	Soil	Soil	Soil	Soil														



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Analysis Report

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 920561. Samples arrived at the laboratory on Thursday, November 11, 2004. The PO# for this group is 6527.07.

Client Description

PCB1104-1A Grab Soil Sample
PCB1104-1B Grab Soil Sample
PCB1104-2A Grab Soil Sample
PCB1104-2B Grab Soil Sample
PCB1104-3A Grab Soil Sample
PCB1104-3B Grab Soil Sample
PCB1104-4A Grab Soil Sample
PCB1104-4B Grab Soil Sample
PCB1104-5A Grab Soil Sample
PCB1104-5B Grab Soil Sample
PCB1104-26A Grab Soil Sample
PCB1104-26B Grab Soil Sample

Lancaster Labs Number

4403897
4403898
4403899
4403900
4403901
4403902
4403903
4403904
4403905
4403906
4403907
4403908

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO
1 COPY TO

RMT, Inc.
Data Package Group

Attn: Mr. Nicholas J. Clevett



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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300.

Respectfully Submitted,

Ruben Hensley
Ruben Hensley
Senior Chemist Coordinator



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Lancaster Laboratories Sample No. SW 4403897

PCB1104-1A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 09:15 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:15

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P--1A SDG#: LEC18-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	47.7	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	92.	ug/kg	10
01496	PCB-1221	11104-28-2	N.D.	82.	ug/kg	10
01497	PCB-1232	11141-16-5	N.D.	63.	ug/kg	10
01498	PCB-1242	53469-21-9	N.D.	63.	ug/kg	10
01499	PCB-1248	12672-29-6	N.D.	63.	ug/kg	10
01500	PCB-1254	11097-69-1	3,200.	71.	ug/kg	10
01501	PCB-1260	11096-82-5	860.	63.	ug/kg	10

Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 17:43		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/16/2004 21:19		Douglas D Seitz	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 03:20		Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4403898

PCB1104-1B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 09:20 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:15

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P--1B SDG#: LEC18-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	44.2	0.50	t	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	86.	ug/kg	10
01496	PCB-1221	11104-28-2	N.D.	77.	ug/kg	10
01497	PCB-1232	11141-16-5	N.D.	59.	ug/kg	10
01498	PCB-1242	53469-21-9	N.D.	59.	ug/kg	10
01499	PCB-1248	12672-29-6	N.D.	59.	ug/kg	10
01500	PCB-1254	11097-69-1	4,500.	66.	ug/kg	10
01501	PCB-1260	11096-82-5	1,500.	59.	ug/kg	10

Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial #	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 17:43		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/16/2004 21:40		Douglas D Seitz	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 03:20		Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4403899

PCB1104-2A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/08/2004 15:18 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:15

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-2A- SDG#: LEC18-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	41.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	8.2	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	7.4	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	5.7	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	5.7	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	5.7	ug/kg	1
01500	PCB-1254	11097-69-1	170.	6.4	ug/kg	1
01501	PCB-1260	11096-82-5	66.	5.7	ug/kg	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 17:43		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/16/2004 22:01		Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 03:20		Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4403900

PCB1104-2B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/08/2004 15:25 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:15

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-2B- SDG#: LEC18-04

CAT No.	Analysis Name	CAS Number	Dry	Dry	Dilution Factor
			Result	Method Detection Limit	
00111	Moisture	n.a.	52.7	0.50	%
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01216	PCBs in Solids				
01495	PCB-1016	12674-11-2	N.D.	10.	ug/kg
01496	PCB-1221	11104-28-2	N.D.	9.1	ug/kg
01497	PCB-1232	11141-16-5	N.D.	7.0	ug/kg
01498	PCB-1242	53469-21-9	N.D.	7.0	ug/kg
01499	PCB-1248	12672-29-6	N.D.	7.0	ug/kg
01500	PCB-1254	11097-69-1	130.	7.8	ug/kg
01501	PCB-1260	11096-82-5	57.	7.0	ug/kg

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/16/2004 17:43	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/16/2004 22:22	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 03:20	Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4403901

PCB1104-3A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/08/2004 16:15 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

Reported: 11/18/2004 at 12:15

Discard: 12/19/2004

RMT, Inc.

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Madison WI 53708-8923

P-3A- SDG#: LEC18-05

CAT No.	Analysis Name	CAS Number	Dry Result	Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	40.2	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	8.0	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	7.2	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	5.5	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	5.5	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	5.5	ug/kg	1
01500	PCB-1254	11097-69-1	80	6.2	ug/kg	1
01501	PCB-1260	11096-82-5	37	5.5	ug/kg	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 17:43		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 21:57		Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 03:20		Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4403902

PCB1104-3B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/08/2004 16:20 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:15

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-3B- SDG#: LEC18-06

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture		n.a.	35.2	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016		12674-11-2	N.D.	7.4	ug/kg	1
01496	PCB-1221		11104-28-2	N.D.	6.6	ug/kg	1
01497	PCB-1232		11141-16-5	N.D.	5.1	ug/kg	1
01498	PCB-1242		53469-21-9	N.D.	5.1	ug/kg	1
01499	PCB-1248		12672-29-6	N.D.	5.1	ug/kg	1
01500	PCB-1254		11097-69-1	120.	5.7	ug/kg	1
01501	PCB-1260		11096-82-5	42.	5.1	ug/kg	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture		EPA 160.3 modified	1	11/16/2004 17:43	Scott W Freisher	1
01216	PCBs in Solids		SW-846 8082	1	11/17/2004 22:18	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract		SW-846 3550B	1	11/16/2004 03:20	Sarah M Snyder	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403903

PCB1104-4A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 08:45

by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

Reported: 11/18/2004 at 12:15

Discard: 12/19/2004

RMT, Inc.

PO Box 8923

Madison WI 53708-8923

PCB4A SDG#: LEC18-07

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.		36.9	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	38.	ug/kg	5	
01496	PCB-1221	11104-28-2	N.D.	34.	ug/kg	5	
01497	PCB-1232	11141-16-5	N.D.	26.	ug/kg	5	
01498	PCB-1242	53469-21-9	N.D.	26.	ug/kg	5	
01499	PCB-1248	12672-29-6	N.D.	26.	ug/kg	5	
01500	PCB-1254	11097-69-1	560.	29.	ug/kg	5	
01501	PCB-1260	11096-82-5	180.	26.	ug/kg	5	

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified		1	11/16/2004 17:43	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082		1	11/16/2004 23:26	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B		1	11/16/2004 03:20	Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4403904

PCB1104-4B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 08:50 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:16

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

PCB4B SDG#: LEC18-08

CAT No.	Analysis Name	CAS Number	Dry	Dry		Dilution Factor
			Result	Method Detection Limit	Units	
00111	Moisture	n.a.	48.7	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	9.4	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	8.4	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	6.4	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	6.4	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	6.4	ug/kg	1
01500	PCB-1254	11097-69-1	54.	7.2	ug/kg	1
01501	PCB-1260	11096-82-5	32. J	6.4	ug/kg	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/16/2004 17:43	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/16/2004 23:47	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 03:20	Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4403905

PCB1104-5A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 09:30 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:16

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

PCB5A SDG#: LEC18-09

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture		n.a.	25.5	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	130.	ug/kg	20	
01496	PCB-1221	11104-28-2	N.D.	120.	ug/kg	20	
01497	PCB-1232	11141-16-5	N.D.	89.	ug/kg	20	
01498	PCB-1242	53469-21-9	N.D.	89.	ug/kg	20	
01499	PCB-1248	12672-29-6	N.D.	89.	ug/kg	20	
01500	PCB-1254	11097-69-1	6,200.	99.	ug/kg	20	
01501	PCB-1260	11096-82-5	760.	89.	ug/kg	20	

Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture		EPA 160.3 modified	1	11/16/2004 17:43		Scott W Freisher	1
01216	PCBs in Solids		SW-846 8082	1	11/17/2004 00:08		Douglas D Seitz	20
00819	Solid Sample Pesticide Extract		SW-846 3550B	1	11/16/2004 03:20		Sarah M Snyder	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403906

PCB1104-5B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 09:35 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:16

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

PCB5B SDG#: LEC18-10

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture		n.a.	26.1	0.50	%	1
<p>"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.</p>							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	32.	ug/kg	5	
01496	PCB-1221	11104-28-2	N.D.	29.	ug/kg	5	
01497	PCB-1232	11141-16-5	N.D.	22.	ug/kg	5	
01498	PCB-1242	53469-21-9	N.D.	22.	ug/kg	5	
01499	PCB-1248	12672-29-6	N.D.	22.	ug/kg	5	
01500	PCB-1254	11097-69-1	780.	25.	ug/kg	5	
01501	PCB-1260	11096-82-5	160.	22.	ug/kg	5	

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified		1	11/16/2004 17:43	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082		1	11/17/2004 00:30	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B		1	11/16/2004 03:20	Sarah M Snyder	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403907

PCB1104-26A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 16:20 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:16

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-26A SDG#: LEC18-11

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method	Units	Dilution Factor
00111	Moisture		n.a.	16.4	Detection Limit	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016		12674-11-2	N.D.	29.	ug/kg	5
01496	PCB-1221		11104-28-2	N.D.	26.	ug/kg	5
01497	PCB-1232		11141-16-5	N.D.	20.	ug/kg	5
01498	PCB-1242		53469-21-9	N.D.	20.	ug/kg	5
01499	PCB-1248		12672-29-6	N.D.	20.	ug/kg	5
01500	PCB-1254		11097-69-1	530.	22.	ug/kg	5
01501	PCB-1260		11096-82-5	390.	20.	ug/kg	5

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
00111	Moisture		EPA 160.3 modified	1	11/16/2004 17:43	Scott W Freisher	1
01216	PCBs in Solids		SW-846 8082	1	11/17/2004 00:51	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract		SW-846 3550B	1	11/16/2004 03:20	Sarah M Snyder	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403908

PCB1104-26B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 16:25 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:16

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-26B SDG#: LEC18-12

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture		n.a.	13.2	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	5.5	ug/kg	1	
01496	PCB-1221	11104-28-2	N.D.	5.0	ug/kg	1	
01497	PCB-1232	11141-16-5	N.D.	3.8	ug/kg	1	
01498	PCB-1242	53469-21-9	N.D.	3.8	ug/kg	1	
01499	PCB-1248	12672-29-6	N.D.	3.8	ug/kg	1	
01500	PCB-1254	11097-69-1	24.	4.3	ug/kg	1	
01501	PCB-1260	11096-82-5	8.1 J	3.8	ug/kg	1	

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 17:43	Scott W Freisher	1	
01216	PCBs in Solids	SW-846 8082	1	11/16/2004 19:32	Douglas D Seitz	1	
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 03:20	Sarah M Snyder	1	



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Analysis Report

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 11/18/04 at 12:16 PM

Group Number: 920561

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 043200012A								
PCB-1016	N.D.	4.8	ug/kg	90			72-120	
PCB-1221	N.D.	4.3	ug/kg					
PCB-1232	N.D.	3.3	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.7	ug/kg					
PCB-1260	N.D.	3.3	ug/kg	90			76-122	
Batch number: 04321820005B								
Moisture				Sample number(s): 4403897-4403908			99-101	
				100				

Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 043200012A								
PCB-1016	93	90	45-125	3	50			
PCB-1260	103	100	32-139	3	50			
Batch number: 04321820005B								
Moisture			Sample number(s): 4403897-4403908			44.2	44.0	1
								15

Surrogate Quality Control

Analysis Name: PCBs in Solids

Batch number: 043200012A

Tetrachloro-m-xylene Decachlorobiphenyl

4403897	92	235*
4403898	91	306*
4403899	94	123
4403900	95	116
4403901	79	101
4403902	81	119
4403903	92	153*
4403904	93	113
4403905	96	134*

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Analysis Report

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Quality Control Summary

Client Name: RMT, Inc.

Reported: 11/18/04 at 12:16 PM

Group Number: 920561

Surrogate Quality Control

4403906	97	165*
4403907	100	138*
4403908	93	92
Blank	92	79
LCS	99	89
MS	99	98
MSD	98	98

Limits: 53-139 41-132

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Acct. # 9322 Group# 920561 Sample# 4403897-908 COC # 0071089

Please print. Instructions on reverse side correspond with circled numbers.

① Client:	RMT	Acct. #:			④	⑤ Analysis Requests										For Lab Use Only
Project Name#:	<u>Mulberry 6527.0</u>	PWSID #:												FSC:		
Project Manager:	<u>N. Clevert</u>	P.O.#:												SCR #:		
Sampler:	<u>Chris Beall</u>	Quote #:														
Name of state where samples were collected:	<u>NJ</u>															
② Sampling Information	Date Collected	Time Collected	③											Remarks		
PCB 1104 - 1 A	11/04	0915	X													
PCB 1104 - 1 B	11/04	0920														
PCB 1104 - 2 A	11/04	1518														
PCB 1104 - 2 B		1525														
PCB 1104 - 3 A		1615														
PCB 1104 - 3 B	↓	1620														
PCB 1104 - 4 A	11/04	0845														
PCB 1104 - 4 B	↓	0850														
PCB 1104 - 5 A		0930														
PCB 1104 - 5 B	↓	0935														

⑦ Turnaround Time Requested (TAT) (please circle): Normal Rush
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed:

Rush results requested by (please circle): Phone Fax E-mail

Phone #: 616 975 5415 Fax #: 616 975 1090

E-mail address: Nicholas.Clevert@SNTINC.com

⑧ Data Package Options (please circle if required)

SDG Complete?

QC Summary

Type VI (Raw Data)

Yes No

Type I (Tier I)

GLP

Site-specific QC required? Yes No

Type II (Tier II)

Other

(If yes, indicate QC sample and submit triplicate volume.)

Type III (NJ Red. Del.)

Internal Chain of Custody required? Yes No

Type IV (CLR)

⑨ Relinquished by: <i>Rmt</i>	Date <u>11/104</u>	Time <u>0915</u>	Received by: <u>Jay Clarke</u>	Date <u>11/104</u>	Time <u>0911</u>
Relinquished by: <i>Jay Clarke</i>	Date <u>11/104</u>	Time <u>1535</u>	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: <i>Chris B</i>	Date <u>11/104</u>	Time <u>1535</u>

Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Acct. # 9322 Group# 920561 Sample # 4405897-908 COC # 0071093

6

Please print. Instructions on reverse side correspond with circled numbers.

1	Client: <u>RMT</u>		Acct. #:											For Lab Use Only																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A TIC is a possible aldol-condensation product
- B Analyte was also detected in the blank
- C Pesticide result confirmed by GC/MS
- D Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- N Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns >25%
- U Compound was not detected
- X,Y,Z Defined in case narrative

Inorganic Qualifiers

- B Value is <CRDL, but ≥IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- S Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 920560. Samples arrived at the laboratory on Thursday, November 11, 2004. The PO# for this group is 6527.07.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
PCB1104-11A Grab Soil Sample	4403877
PCB1104-11B Grab Soil Sample	4403878
PCB1104-13A Grab Soil Sample	4403879
PCB1104-13B Grab Soil Sample	4403880
PCB1104-14A Grab Soil Sample	4403881
PCB1104-14B Grab Soil Sample	4403882
PCB1104-15A Grab Soil Sample	4403883
PCB1104-15B Grab Soil Sample	4403884
PCB1104-16A Grab Soil Sample	4403885
PCB1104-16B Grab Soil Sample	4403886
PCB1104-17A Grab Soil Sample	4403887
PCB1104-17B Grab Soil Sample	4403888
PCB1104-22A Grab Soil Sample	4403889
PCB1104-22B Grab Soil Sample	4403890
PCB1104-23A Grab Soil Sample	4403891
PCB1104-23B Grab Soil Sample	4403892
PCB1104-24A Grab Soil Sample	4403893
PCB1104-24B Grab Soil Sample	4403894
PCB1104-25A Grab Soil Sample	4403895
PCB1104-25B Grab Soil Sample	4403896

METHODOLOGY



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Analysis Report

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO
1 COPY TO

RMT, Inc.
Data Package Group

Attn: Mr. Nicholas J. Clevett

Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300.

Respectfully Submitted,

Robert Hessey
Robert Hessey
Senior Chemist, Coordinator



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403877

PCB1104-11A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 14:10 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:05

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-11A SDG#: LEC17-01

CAT No.	Analysis Name	CAS Number	Dry	Dry	Method Detection Limit	Units	Dilution Factor
			Result	Method Detection Limit			
00111	Moisture	n.a.	34.4	0.50	#	1	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	150.	ug/kg	20	
01496	PCB-1221	11104-28-2	N.D.	130.	ug/kg	20	
01497	PCB-1232	11141-16-5	N.D.	100.	ug/kg	20	
01498	PCB-1242	53469-21-9	N.D.	100.	ug/kg	20	
01499	PCB-1248	12672-29-6	N.D.	100.	ug/kg	20	
01500	PCB-1254	11097-69-1	7,800.	110.	ug/kg	20	
01501	PCB-1260	11096-82-5	1,500.	100.	ug/kg	20	

Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Analyst	Dilution Factor
			Trial#	Date and Time			
00111	Moisture	EPA 160/3 modified	1	11/16/2004 19:27		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 14:10		Douglas D Seitz	20
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00		Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403878

PCB1104-11B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 14:15 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:05

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-11B SDG#: LEC17-02

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.		49.3	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	47.	ug/kg	5	
01496	PCB-1221	11104-28-2	N.D.	42.	ug/kg	5	
01497	PCB-1232	11141-16-5	N.D.	33.	ug/kg	5	
01498	PCB-1242	53469-21-9	N.D.	33.	ug/kg	5	
01499	PCB-1248	12672-29-6	N.D.	33.	ug/kg	5	
01500	PCB-1254	11097-69-1	2,000.	36.	ug/kg	5	
01501	PCB-1260	11096-82-5	450.	33.	ug/kg	5	

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
00111	Moisture		EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1
01216	PCBs in Solids		SW-846 8082	1	11/17/2004 14:32	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract		SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1



Analysis Report

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Lancaster Laboratories Sample No. SW 4403879

PCB1104-13A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 14:55 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:05

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-13A SDG#: LEC17-03

CAT No.	Analysis Name	CAS Number	Dry	Dry	Units	Dilution Factor
			Result	Method Detection Limit		
00111	Moisture	n.a.	13.0	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	5.5	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	4.9	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	3.8	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	3.8	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	3.8	ug/kg	1
01500	PCB-1254	11097-69-1	N.D.	4.3	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	3.8	ug/kg	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 14:53	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403680

PCB1104-13B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 15:00

by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:05

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-13B SDG#: LEC17-04

CAT No.	Analysis Name	CAS Number	Dry	Dry		Dilution Factor
			Result	Method	Detection Limit	
00111	Moisture	n.a.	13.1		0.50	%
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.		5.5	ug/kg
01496	PCB-1221	11104-28-2	N.D.		4.9	ug/kg
01497	PCB-1232	11141-16-5	N.D.		3.8	ug/kg
01498	PCB-1242	53469-21-9	N.D.		3.8	ug/kg
01499	PCB-1248	12672-29-6	N.D.		3.8	ug/kg
01500	PCB-1254	11097-69-1	N.D.		4.3	ug/kg
01501	PCB-1260	11096-82-5	N.D.		3.8	ug/kg

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 15:14	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1



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Lancaster Laboratories Sample No. SW 4403881

PCB1104-14A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 15:45 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:05

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-14A SDG#: LEC17-05

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture		n.a.	56.8	0.50	#	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	56.	ug/kg	5	
01496	PCB-1221	11194-28-2	N.D.	50.	ug/kg	5	
01497	PCB-1232	11141-16-5	N.D.	38.	ug/kg	5	
01498	PCB-1242	53469-21-9	N.D.	38.	ug/kg	5	
01499	PCB-1248	12672-29-6	N.D.	38.	ug/kg	5	
01500	PCB-1254	11097-69-1	1,700.	43.	ug/kg	5	
01501	PCB-1260	11096-82-5	440.	38.	ug/kg	5	

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1	
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 16:17	Douglas D Seitz	5	
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1	



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403882

PCB1104-14B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 15:50

by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

Reported: 11/18/2004 at 12:05

Discard: 12/19/2004

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

P-14B SDG#: LEC17-06

CAT	No.	Analysis Name	CAS Number	Dry Result	Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.		46.1	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	18.	ug/kg	2	
01496	PCB-1221	11104-28-2	N.D.	16.	ug/kg	2	
01497	PCB-1232	11141-16-5	N.D.	12.	ug/kg	2	
01498	PCB-1242	53469-21-9	N.D.	12.	ug/kg	2	
01499	PCB-1248	12672-29-6	N.D.	12.	ug/kg	2	
01500	PCB-1254	11097-69-1	650.	14.	ug/kg	2	
01501	PCB-1260	11096-82-5	150.	12.	ug/kg	2	

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27			Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 16:39			Douglas D Seitz	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00			Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403883

PCB1104-15A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 16:15 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:05

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-15A SDG#: LEC17-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	35.3	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	37.	ug/kg	5
01496	PCB-1221	11104-28-2	N.D.	33.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	26.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	26.	ug/kg	5
01499	PCB-1248	12672-29-6	N.D.	26.	ug/kg	5
01500	PCB-1254	11097-69-1	820.	29.	ug/kg	5
01501	PCB-1260	11096-82-5	200.	26.	ug/kg	5

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 17:00		Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00		Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403884

PCB1104-15B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 16:20 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:05

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-15B SDG#: LEC17-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	31.0	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	35.	ug/kg	5
01496	PCB-1221	11104-28-2	N.D.	31.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	24.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	24.	ug/kg	5
01499	PCB-1248	12672-29-6	N.D.	24.	ug/kg	5
01500	PCB-1254	11097-69-1	950.	27.	ug/kg	5
01501	PCB-1260	11096-82-5	140.	24.	ug/kg	5

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 17:21	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403885

PCB1104-16A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 08:20 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:05

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-16A SDG#: LEC17-09

CAT No.	Analysis Name	CAS Number	Dry	Method	Units	Dilution Factor
			Result	Detection Limit		
00111	Moisture	n.a.	35.6	0.50	t	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	37.	ug/kg	5
01496	PCB-1221	11104-28-2	N.D.	33.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	26.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	26.	ug/kg	5
01499	PCB-1248	12672-29-6	N.D.	26.	ug/kg	5
01500	PCB-1254	11097-69-1	800.	29.	ug/kg	5
01501	PCB-1260	11096-82-5	350.	26.	ug/kg	5

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial #	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 13:07	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403886

PCB1104-16B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 08:25 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:05

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-16B SDG#: LEC17-10

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method	Dilution Factor
00111	Moisture	n.a.		33.6	0.50	%
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	72.	ug/kg	10
01496	PCB-1221	11104-28-2	N.D.	65.	ug/kg	10
01497	PCB-1232	11141-16-5	N.D.	50.	ug/kg	10
01498	PCB-1242	53469-21-9	N.D.	50.	ug/kg	10
01499	PCB-1248	12672-29-6	N.D.	50.	ug/kg	10
01500	PCB-1254	11097-69-1	4,200.	56.	ug/kg	10
01501	PCB-1260	11096-82-5	740	50.	ug/kg	10

Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture		EPA 160.3 modified	1	11/16/2004 19:27		Scott W Freisher	1
01216	PCBs in Solids		SW-846 8082	1	11/17/2004 17:42		Douglas D Seitz	10
00819	Solid Sample Pesticide Extract		SW-846 3550B	1	11/16/2004 20:00		Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403887

PCB1104-17A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 07:30 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

Reported: 11/18/2004 at 12:06

Discard: 12/19/2004

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

P-17A SDG#: LEC17-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	34.4	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	37.	ug/kg	5
01496	PCB-1221	11104-28-2	N.D.	33.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	25.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	25.	ug/kg	5
01499	PCB-1248	12672-29-6	N.D.	25.	ug/kg	5
01500	PCB-1254	11097-69-1	680.	28.	ug/kg	5
01501	PCB-1260	11096-82-5	210.	25.	ug/kg	5

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 18:03	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403888

PCB1104-17B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 07:35

by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:06

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-17B SDG#: LEC17-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	33.3	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	36.	ug/kg	5
01496	PCB-1221	11104-28-2	N.D.	32.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	25.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	25.	ug/kg	5
01499	PCB-1248	12672-29-6	N.D.	25.	ug/kg	5
01500	PCB-1254	11097-69-1	590.	28.	ug/kg	5
01501	PCB-1260	11096-82-5	160.	25.	ug/kg	5

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 18:25		Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00		Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403889

PCB1104-22A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 13:45 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:06

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-22A SDG#: LEC17-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	17.5	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	58.	ug/kg	10
01496	PCB-1221	11104-28-2	N.D.	52.	ug/kg	10
01497	PCB-1232	11141-16-5	N.D.	40.	ug/kg	10
01498	PCB-1242	53469-21-9	N.D.	40.	ug/kg	10
01499	PCB-1248	12672-29-6	N.D.	40.	ug/kg	10
01500	PCB-1254	11097-69-1	3,200.	45.	ug/kg	10
01501	PCB-1260	11096-82-5	840.	40.	ug/kg	10

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 18:46	Douglas D Seitz	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403890

PCB1104-22B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 13:50 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:06

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-22B SDG#: LEC17-14

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.		14.9	0.50	#	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	56.	ug/kg	10	
01496	PCB-1221	11104-28-2	N.D.	51.	ug/kg	10	
01497	PCB-1232	11141-16-5	N.D.	39.	ug/kg	10	
01498	PCB-1242	53469-21-9	N.D.	39.	ug/kg	10	
01499	PCB-1248	12672-29-6	N.D.	39.	ug/kg	10	
01500	PCB-1254	11097-69-1	2,900.	43.	ug/kg	10	
01501	PCB-1260	11096-82-5	550.	39.	ug/kg	10	

Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1	
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 19:07	Douglas D Seitz	10	
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1	



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403891

PCB1104-23A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 14:10 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:06

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-23A SDG#: LEC17-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	38.9	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	16.	ug/kg	2
01496	PCB-1221	11104-28-2	N.D.	14.	ug/kg	2
01497	PCB-1232	11141-16-5	N.D.	11.	ug/kg	2
01498	PCB-1242	53469-21-9	N.D.	11.	ug/kg	2
01499	PCB-1248	12672-29-6	N.D.	11.	ug/kg	2
01500	PCB-1254	11097-69-1	530.	12.	ug/kg	2
01501	PCB-1260	11096-82-5	130.	11.	ug/kg	2

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160-3 modified	1	11/16/2004 19:27		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 19:28		Douglas D Seitz	2
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00		Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403892

PCB1104-23B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 14:15 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:06

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-23B SDG#: LEC17-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	31.9	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	7.0	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	6.3	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	4.8	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	4.8	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	4.8	ug/kg	1
01500	PCB-1254	11097-69-1	86.	5.4	ug/kg	1
01501	PCB-1260	11096-82-5	28.	4.8	ug/kg	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 19:50		Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00		Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403893

PCB1104-24A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 14:50 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:06

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-24A SDG#: LEC17-17

CAT		Dry	Dry	Method	Units	Dilution Factor
No.	Analysis Name	CAS Number	Result	Detection Limit		
00111	Moisture	n.a.	17.7	0.50	#	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	29.	ug/kg	5
01496	PCB-1221	11104-28-2	N.D.	26.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	20.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	20.	ug/kg	5
01499	PCB-1248	12672-29-6	N.D.	20.	ug/kg	5
01500	PCB-1254	11097-69-1	590.	22.	ug/kg	5
01501	PCB-1260	11096-82-5	220.	20.	ug/kg	5

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT		Analysis		Dilution Factor
No.	Analysis Name	Trial#	Date and Time	Analyst
00111	Moisture	EPA 160.3 modified	1 11/16/2004 19:27	Scott W Freisher
01216	PCBs in Solids	SW-846 8082	1 11/17/2004 20:11	Douglas D Seitz
00819	Solid Sample Pesticide Extract	SW-846 3550B	1 11/16/2004 20:00	Luis E Villamil



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403894

PCB1104-24B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 14:55 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:06

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-24B SDG#: LEC17-18

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.		12.2	0.50	#	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	55.	ug/kg	10	
01496	PCB-1221	11104-28-2	N.D.	49.	ug/kg	10	
01497	PCB-1232	11141-16-5	N.D.	38.	ug/kg	10	
01498	PCB-1242	53469-21-9	N.D.	38.	ug/kg	10	
01499	PCB-1248	12672-29-6	N.D.	38.	ug/kg	10	
01500	PCB-1254	11097-69-1	470.	42.	ug/kg	10	
01501	PCB-1260	11096-82-5	100. J	38.	ug/kg	10	

Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified		1	11/16/2004 19:27	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082		1	11/17/2004 20:32	Douglas D Seitz	10
00819	Solid Sample Pesticide Extract	SW-846 3550B		1	11/16/2004 20:00	Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403895

PCB1104-25A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 15:35 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:06

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-25A SDG#: LEC17-19

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.		19.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	30.	ug/kg	5	
01496	PCB-1221	11104-28-2	N.D.	27.	ug/kg	5	
01497	PCB-1232	11141-16-5	N.D.	21.	ug/kg	5	
01498	PCB-1242	53469-21-9	N.D.	21.	ug/kg	5	
01499	PCB-1248	12672-29-6	N.D.	21.	ug/kg	5	
01500	PCB-1254	11097-69-1	670.	23.	ug/kg	5	
01501	PCB-1260	11096-82-5	320.	21.	ug/kg	5	

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
00111	Moisture		EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1
01216	PCBs in Solids		SW-846 8082	1	11/17/2004 20:53	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract		SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4403896

PCB1104-25B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 15:40 by CB

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 11/18/2004 at 12:06

PO Box 8923

Discard: 12/19/2004

Madison WI 53708-8923

P-25B SDG#: LEC17-20*

CAT No.	Analysis Name	CAS Number	Dry	Dry	Method Limit	Units	Dilution Factor
			Result	Detection			
00111	Moisture	n.a.	17.2	0.50	%	1	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	29.	ug/kg	5	
01496	PCB-1221	11104-28-2	N.D.	26.	ug/kg	5	
01497	PCB-1232	11141-16-5	N.D.	20.	ug/kg	5	
01498	PCB-1242	53469-21-9	N.D.	20.	ug/kg	5	
01499	PCB-1248	12672-29-6	N.D.	20.	ug/kg	5	
01500	PCB-1254	11097-69-1	730.	22.	ug/kg	5	
01501	PCB-1260	11096-82-5	210.	20.	ug/kg	5	

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/16/2004 19:27	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/17/2004 21:14	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/16/2004 20:00	Luis E Villamil	1



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Analysis Report

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 11/18/04 at 12:06 PM

Group Number: 920560

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 043210007A			Sample number(s): 4403877-4403896					
PCB-1016	N.D.	4.8	ug/kg	92		72-120		
PCB-1221	N.D.	4.3	ug/kg					
PCB-1232	N.D.	3.3	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.7	ug/kg					
PCB-1260	N.D.	3.3	ug/kg	94		76-122		
Batch number: 04321820004A			Sample number(s): 4403877-4403886					
Moisture				100		99-101		
Batch number: 04321820004B			Sample number(s): 4403887-4403896					
Moisture				100		99-101		

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 043210007A			Sample number(s): 4403877-4403896					
PCB-1016	109	111	45-125	2	50			
PCB-1260	104	106	32-139	1	50			
Batch number: 04321820004A			Sample number(s): 4403877-4403886					
Moisture				33.6	35.3	5	15	
Batch number: 04321820004B			Sample number(s): 4403887-4403896					
Moisture				34.4	32.7	5	15	

Surrogate Quality Control

Analysis Name: PCBs in Solids
Batch number: 043210007A
Tetrachloro-m-xylene Decachlorobiphenyl

4403877	99	188*
4403878	97	147*
4403879	97	104

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.



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Analysis Report

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 11/18/04 at 12:06 PM

Group Number: 920560

Surrogate Quality Control

4403880	96	101
4403881	89	379*
4403882	77	202*
4403883	96	373*
4403884	94	314*
4403885	95	255*
4403886	98	795*
4403887	75	180*
4403888	101	181*
4403889	86	153*
4403890	100	160*
4403891	77	275*
4403892	98	142*
4403893	75	111
4403894	109	224*
4403895	99	263*
4403896	96	206*
Blank	95	95
LCS	103	101
MS	105	265*
MSD	103	260*

Limits: 53-139 41-132

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only
Acc# 9322 Group# 920560 Sample# 4403877-96

3
COC # 0071090

Please print. Instructions on reverse side correspond with circled numbers.

Analysis Request / Environmental Services Chain of Custody



Acct. # 9322

For Lancaster Laboratories use only
Group# 920560 Sample# 4403677-96

4
COC # 0071091

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: RMT Acct. #: _____
 Project Name/ #: 6527.07 PWSID #: _____
 Project Manager: N. Clevelett P.O. #: _____
 Sampler: Unit 3eall Quote #: _____
 Name of state where samples were collected: NJ

2	Sample ID	Date Received	Date Analyzed	3		4	5	6		7	Remarks
				Received	Analyzed			5	6		
	PCB1104 - 16 A	11/10/04	0820	Y	Y		1	X			1.3-2.4°C
	PCB1104 - 16 B		0825		1						11/11/04
	PCB1104 - 17 A		0730				1				
	PCB1104 - 17 B		0735								
	PCB1104 - 18 A		0940								- Hold
	PCB1104 - 18 B		0945								- Hold
	PCB1104 - 19 A		1100								- Hold
	PCB1104 - 19 B		1105								- Hold
	PCB1104 - 20 A		1115								- Hold
	PCB1104 - 20 B		1120								- Hold

7 Turnaround Time Requested (TAT) (please circle): Normal Rush
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed:

Rush results requested by (please circle): Phone Fax E-mail

Phone #: 616 925 5415 Fax #: 616 925 1098

E-mail address: Nicholas.Clevelett@rmtinc.com

8 Data Package Options (please circle if required)

SDG Complete?

QC Summary

Type VI (Raw Data)

Yes No

Type I (Tier I)

GLP

Site-specific QC required? Yes No

Type II (Tier II)

Other

(If yes, indicate QC sample and submit triplicate volume.)

Type III (NJ Red. Del.)

Internal Chain of Custody required? Yes No

Type IV (CLP)

Relinquished by: <u>RMT</u>	Date <u>11/11/04</u>	Time <u>0915</u>	Received by: <u>Jay Clark</u>	Date <u>11/11/04</u>	Time <u>0915</u>
Relinquished by: <u>Jay Clark</u>	Date <u>11/11/04</u>	Time <u>1530</u>	Received by: <u></u>	Date <u></u>	Time <u></u>
Relinquished by: <u></u>	Date <u></u>	Time <u></u>	Received by: <u></u>	Date <u></u>	Time <u></u>
Relinquished by: <u></u>	Date <u></u>	Time <u></u>	Received by: <u></u>	Date <u></u>	Time <u></u>
Relinquished by: <u>Jay Clark</u>	Date <u>11/11/04</u>	Time <u>1530</u>	Received by: <u></u>	Date <u></u>	Time <u></u>

Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Acc. # 9322 Group# 920560 Sample # 4463877-96 COC # 0071092

5

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: RMT Acct. #: _____
 Project Name#: 6527.07 PWSID #: _____
 Project Manager: N. Clevelett P.O. #: _____
 Sampler: Chris Beall Quote #: _____
 Name of state where samples were collected: NJ

Sample Identification	Date Collected	Time Collected	Comments	3	4	5	6	7	8	9
PCB1104-21A	11/10/04	1220	X	+	1	X				
PCB1104-21B		1225								
PCB1104-22A		1345								
PCB1104-22B		1350								
PCB1104-23A		1410								
PCB1104-23B		1415								
PCB1104-24A		1430								
PCB1104-24B		1455								
PCB1104-25A		1535								
PCB1104-25B		1540								

7 Turnaround Time Requested (TAT) (please circle): Normal Rush
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: _____

Rush results requested by (please circle): Phone Fax E-mail

Phone #: 616 975 5415 Fax #: 616 975 1098

E-mail address: Nicholas.Clevelett@RMTinc.com

8 Data Package Options (please circle if required)

QC Summary	Type VI (Raw Data)	SDG Complete?
<input checked="" type="radio"/> Type I (Tier I)	GLP	Site-specific QC required? <input checked="" type="radio"/> Yes <input type="radio"/> No
Type II (Tier II)	Other	(If yes, indicate QC sample and submit triplicate volume.)
Type III (NJ Red. Del.)	Internal Chain of Custody required? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Type IV (CLP)		

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 275, Lancaster, PA 17605-2425 (717) 656-2300
 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/02

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A TIC is a possible aldol-condensation product
- B Analyte was also detected in the blank
- C Pesticide result confirmed by GC/MS
- D Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- N Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns $>25\%$
- U Compound was not detected
- X,Y,Z Defined in case narrative

Inorganic Qualifiers

- B Value is <CRDL, but \geq IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- S Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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Analysis Report

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 921803. Samples arrived at the laboratory on Thursday, November 11, 2004. The PO# for this group is 6527.07.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
PCB1104-6A Grab Soil Sample	4411203
PCB1104-6B Grab Soil Sample	4411204
PCB1104-7A Grab Soil Sample	4411205
PCB1104-7B Grab Soil Sample	4411206
PCB1104-8A Grab Soil Sample	4411207
PCB1104-8B Grab Soil Sample	4411208
PCB1104-9A Grab Soil Sample	4411209
PCB1104-9B Grab Soil Sample	4411210
PCB1104-10A Grab Soil Sample	4411211
PCB1104-10B Grab Soil Sample	4411212
PCB1104-12A Grab Soil Sample	4411213
PCB1104-12B Grab Soil Sample	4411214
PCB1104-18A Grab Soil Sample	4411215
PCB1104-18B Grab Soil Sample	4411216
PCB1104-19A Grab Soil Sample	4411217
PCB1104-19B Grab Soil Sample	4411218
PCB1104-20A Grab Soil Sample	4411219
PCB1104-20B Grab Soil Sample	4411220
PCB1104-21A Grab Soil Sample	4411221
PCB1104-21B Grab Soil Sample	4411222

METHODOLOGY



Analysis Report

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The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO
1 COPY TO

RMT, Inc.
Data Package Group

Attn: Mr. Nicholas J. Clevett

Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300.

Respectfully Submitted,

Melissa A. McGermott
Melissa A. McGermott
Senior Chemist



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Lancaster Laboratories Sample No. SW 4411203

PCB1104-6A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 09:40 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1106A SDG#: LEC19-01

CAT No.	Analysis Name	CAS Number	Dry	Method	Units	Dilution Factor
			Result	Detection Limit		
00111	Moisture	n.a.	37.4	0.50	#	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	7.7	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	6.9	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	5.3	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	5.3	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	5.3	ug/kg	1
01500	PCB-1254	11097-69-1	200	5.9	ug/kg	1
01501	PCB-1260	11096-82-5	80	5.3	ug/kg	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 13:19	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	Sarah M Snyder	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4411204

PCB1104-6B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 09:45 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1106B SDG#: LEC19-02

CAT No.	Analysis Name	CAS Number	Dry	Method	Units	Dilution Factor
			Result	Detection Limit		
00111	Moisture	n.a.	29.7	0.50	#	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	6.8	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	6.1	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	4.7	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	4.7	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	4.7	ug/kg	1
01500	PCB-1254	11097-69-1	49.	5.3	ug/kg	1
01501	PCB-1260	11096-82-5	20.	J	4.7	ug/kg

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 13:40	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4411205

PCB1104-7A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 10:15 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1107A SDG#: LEC19-03

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.		47.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	9.2		ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	8.2		ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	6.3		ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	6.3		ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	6.3		ug/kg	1
01500	PCB-1254	11097-69-1	150	7.1		ug/kg	1
01501	PCB-1260	11096-82-5	73	6.3		ug/kg	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41			Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 14:02			Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50			Sarah M Snyder	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4411206

PCB1104-7B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 10:20 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1107B SDG#: LEC19-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	52.6	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	10.	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	9.1	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	7.0	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	7.0	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	7.0	ug/kg	1
01500	PCB-1254	11097-69-1	63.	7.8	ug/kg	1
01501	PCB-1260	11096-82-5	39.	7.0	ug/kg	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 14:23		Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50		Sarah M Snyder	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4411207

PCB1104-8A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 10:35 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1108A SDG#: LEC19-05

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.		35.9	0.50	#	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	37.	ug/kg	5	
01496	PCB-1221	11104-28-2	N.D.	34.	ug/kg	5	
01497	PCB-1232	11141-16-5	N.D.	26.	ug/kg	5	
01498	PCB-1242	53469-21-9	N.D.	26.	ug/kg	5	
01499	PCB-1248	12672-29-6	N.D.	26.	ug/kg	5	
01500	PCB-1254	11097-69-1	800.	29.	ug/kg	5	
01501	PCB-1260	11096-82-5	330.	26.	ug/kg	5	

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41			Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 14:44			Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50			Sarah M Snyder	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4411208

PCB1104-8B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 10:40 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1108B SDG#: LEC19-06

CAT	Analysis Name	CAS Number	Dry	Dry Method	Dilution Factor
00111	Moisture	n.a.	28.1	0.50	%
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
01216	PCBs in Solids				
01495	PCB-1016	12674-11-2	N.D.	6.7	ug/kg
01496	PCB-1221	11104-28-2	N.D.	6.0	ug/kg
01497	PCB-1232	11141-16-5	N.D.	4.6	ug/kg
01498	PCB-1242	53469-21-9	N.D.	4.6	ug/kg
01499	PCB-1248	12672-29-6	N.D.	4.6	ug/kg
01500	PCB-1254	11097-69-1	270.	5.1	ug/kg
01501	PCB-1260	11096-82-5	100.	4.6	ug/kg

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 15:05		Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50		Sarah M Snyder	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4411209

PCB1104-9A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 13:25 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1109A SDG#: LEC19-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	21.9	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	6.1	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	5.5	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	4.2	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	4.2	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	4.2	ug/kg	1
01500	PCB-1254	11097-69-1	150.	4.7	ug/kg	1
01501	PCB-1260	11096-82-5	44.	4.2	ug/kg	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 15:26		Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50		Sarah M Snyder	1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4411210

PCB1104-9B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 13:30 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1109B SDG#: LEC19-08

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.		23.4	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	6.3	ug/kg	1	
01496	PCB-1221	11104-28-2	N.D.	5.6	ug/kg	1	
01497	PCB-1232	11141-16-5	N.D.	4.3	ug/kg	1	
01498	PCB-1242	53469-21-9	N.D.	4.3	ug/kg	1	
01499	PCB-1248	12672-29-6	N.D.	4.3	ug/kg	1	
01500	PCB-1254	11097-69-1	100.	4.8	ug/kg	1	
01501	PCB-1260	11096-82-5	25.	4.3	ug/kg	1	

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 1603 modified	1	11/30/2004 17:41			Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 15:47			Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50			Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4411211

PCB1104-10A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 13:40 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1110A SDG#: LEC19-09

CAT No.	Analysis Name	CAS Number	Dry	Dry	Method Detection Limit	Units	Dilution Factor
			Result	Method Detection Limit			
00111	Moisture	n.a.	30.6	0.50	%	1	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	6.9	ug/kg	1	
01496	PCB-1221	11104-28-2	N.D.	6.2	ug/kg	1	
01497	PCB-1232	11141-16-5	N.D.	4.8	ug/kg	1	
01498	PCB-1242	53469-21-9	N.D.	4.8	ug/kg	1	
01499	PCB-1248	12672-29-6	N.D.	4.8	ug/kg	1	
01500	PCB-1254	11097-69-1	58.	5.3	ug/kg	1	
01501	PCB-1260	11096-82-5	38.	4.8	ug/kg	1	

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 16:09	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4411212

PCB1104-10B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 13:45 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1-10B SDG#: LEC19-10

CAT No.	Analysis Name	CAS Number	Dry	Dry	Method Detection Limit	Units	Dilution Factor
			Result	Result			
00111	Moisture	n.a.	33.8	33.8	0.50	#	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	7.3	ug/kg	1	
01496	PCB-1221	11104-28-2	N.D.	6.5	ug/kg	1	
01497	PCB-1232	11141-16-5	N.D.	5.0	ug/kg	1	
01498	PCB-1242	53469-21-9	N.D.	5.0	ug/kg	1	
01499	PCB-1248	12672-29-6	N.D.	5.0	ug/kg	1	
01500	PCB-1254	11097-69-1	6.3	J	5.6	ug/kg	1
01501	PCB-1260	11096-82-5	N.D.	5.0	ug/kg	1	

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 16:30	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4411213

PCB1104-12A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 14:25 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1112A SDG#: LEC19-11

CAT No.	Analysis Name	CAS Number	Dry	Method	Units	Dilution Factor
			Result	Detection Limit		
00111	Moisture	n.a.	33.8	0.50	#	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	36.	ug/kg	5
01496	PCB-1221	11104-28-2	N.D.	32.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	25.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	25.	ug/kg	5
01499	PCB-1248	12672-29-6	N.D.	25.	ug/kg	5
01500	PCB-1254	11097-69-1	780.	28.	ug/kg	5
01501	PCB-1260	11096-82-5	220.	25.	ug/kg	5

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 16:51	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4411214

PCB1104-12B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/09/2004 14:30 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

Reported: 12/01/2004 at 14:14

Discard: 01/01/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

1112B SDG#: LEC19-12

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method	Dilution Factor
00111	Moisture	n.a.		25.2	0.50	*
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	64.	ug/kg	10
01496	PCB-1221	11104-28-2	N.D.	57.	ug/kg	10
01497	PCB-1232	11141-16-5	N.D.	44.	ug/kg	10
01498	PCB-1242	53469-21-9	N.D.	44.	ug/kg	10
01499	PCB-1248	12672-29-6	N.D.	44.	ug/kg	10
01500	PCB-1254	11097-69-1	1,700.	49.	ug/kg	10
01501	PCB-1260	11096-82-5	300.	44.	ug/kg	10

Accurate surrogate recoveries could not be determined due to the dilution required for analysis of the sample.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	Scott W Freisher	1	
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 17:12	Douglas D Seitz	10	
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	Sarah M Snyder	1	



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Lancaster Laboratories Sample No. SW 4411215

PCB1104-18A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 09:40 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1118A SDG#: LEC19-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	37.2	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	7.6	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	6.8	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	5.3	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	5.3	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	5.3	ug/kg	1
01500	PCB-1254	11097-69-1	100.	5.9	ug/kg	1
01501	PCB-1260	11096-82-5	41.	5.3	ug/kg	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	Scott W Preisher	1
01216	PCBs in Solids	SW-846 8082	1	11/23/2004 17:33	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 44111216

PCB1104-18B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 09:45 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1118B SDG#: LEC19-14

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Limit	Units	Dilution Factor
00111	Moisture	n.a.		26.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	6.6	ug/kg	1	
01496	PCB-1221	11104-28-2	N.D.	5.9	ug/kg	1	
01497	PCB-1232	11141-16-5	N.D.	4.5	ug/kg	1	
01498	PCB-1242	53469-21-9	N.D.	4.5	ug/kg	1	
01499	PCB-1248	12672-29-6	N.D.	4.5	ug/kg	1	
01500	PCB-1254	11097-69-1	13. J	5.1	ug/kg	1	
01501	PCB-1260	11096-82-5	5.7 J	4.5	ug/kg	1	

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	Scott W Freisher	1	
01216	PCBs in Solids	SW-846 8082	1	11/24/2004 09:24	Douglas D Seitz	1	
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	Sarah M Snyder	1	



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Lancaster Laboratories Sample No. SW 4411217

PCB1104-19A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 11:00 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:14

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1119A SDG#: LEC19-15

CAT No.	Analysis Name	CAS Number	Dry	Method	Units	Dilution Factor
			Result	Detection Limit		
00111	Moisture	n.a.	32.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	7.1	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	6.4	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	4.9	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	4.9	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	4.9	ug/kg	1
01500	PCB-1254	11097-69-1	96.	5.5	ug/kg	1
01501	PCB-1260	11096-82-5	47.	4.9	ug/kg	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis			Dilution Factor
			Trial#	Date and Time	Analyst	
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/24/2004 09:45	Douglas D Seitz	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	Sarah M Snyder	1



Analysis Report

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Lancaster Laboratories Sample No. SW 4411218

PCB1104-19B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 11:05 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:15

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1119B SDG#: LEC19-16

CAT No.	Analysis Name	CAS Number	Dry	Method	Units	Dilution Factor
			Result	Detection Limit		
00111	Moisture	n.a.	29.0	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	6.8	ug/kg	1
01496	PCB-1221	11104-28-2	N.D.	6.1	ug/kg	1
01497	PCB-1232	11141-16-5	N.D.	4.6	ug/kg	1
01498	PCB-1242	53469-21-9	N.D.	4.6	ug/kg	1
01499	PCB-1248	12672-29-6	N.D.	4.6	ug/kg	1
01500	PCB-1254	11097-69-1	200	5.2	ug/kg	1
01501	PCB-1260	11096-82-5	39	4.6	ug/kg	1

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Dilution Factor
			Trial #	Date and Time	
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	1
01216	PCBs in Solids	SW-846 8082	1	11/24/2004 10:07	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	1



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Lancaster Laboratories Sample No. SW 4411219

PCB1104-20A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 11:15 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:15

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1120A SDG#: LEC19-17

CAT	No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture		n.a.	35.6	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016		12674-11-2	N.D.	37.	ug/kg	5
01496	PCB-1221		11104-28-2	N.D.	33.	ug/kg	5
01497	PCB-1232		11141-16-5	N.D.	26.	ug/kg	5
01498	PCB-1242		53469-21-9	N.D.	26.	ug/kg	5
01499	PCB-1248		12672-29-6	N.D.	26.	ug/kg	5
01500	PCB-1254		11097-69-1	820.	29.	ug/kg	5
01501	PCB-1260		11096-82-5	140.	26.	ug/kg	5

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT	No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture		EPA 160.3 modified	1	11/30/2004 17:41		Scott W Freisher	1
01216	PCBs in Solids		SW-846 8082	1	11/24/2004 10:28		Douglas D Seitz	5
00819	Solid Sample Pesticide Extract		SW-846 3550B	1	11/23/2004 02:50		Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4411220

PCB1104-20B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 11:20 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:15

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1120B SDG#: LEC19-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	33.2	0.50	#	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	36.	ug/kg	5
01496	PCB-1221	11104-28-2	N.D.	32.	ug/kg	5
01497	PCB-1232	11141-16-5	N.D.	25.	ug/kg	5
01498	PCB-1242	53469-21-9	N.D.	25.	ug/kg	5
01499	PCB-1248	12672-29-6	N.D.	25.	ug/kg	5
01500	PCB-1254	11097-69-1	1,000.	28.	ug/kg	5
01501	PCB-1260	11096-82-5	150.	25.	ug/kg	5

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41	Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/24/2004 10:49	Douglas D Seitz	5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50	Sarah M Snyder	1



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Lancaster Laboratories Sample No. SW 4411221

PCB1104-21A Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 12:20 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

Reported: 12/01/2004 at 14:15

Discard: 01/01/2005

RMT, Inc.

PO Box 8923

Madison WI 53708-8923

1121A SDG#: LEC19-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Limit	Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	36.3	0.50	%	1	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							
01216	PCBs in Solids						
01495	PCB-1016	12674-11-2	N.D.	38.	ug/kg	5	
01496	PCB-1221	11104-28-2	N.D.	34.	ug/kg	5	
01497	PCB-1232	11141-16-5	N.D.	26.	ug/kg	5	
01498	PCB-1242	53469-21-9	N.D.	26.	ug/kg	5	
01499	PCB-1248	12672-29-6	N.D.	26.	ug/kg	5	
01500	PCB-1254	11097-69-1	730.	29.	ug/kg	5	
01501	PCB-1260	11096-82-5	200.	26.	ug/kg	5	

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis	Dilution Factor
Trial#	Date and Time	Analyst		
00111	Moisture	EPA 160.3 modified	1 11/30/2004 17:41	Scott W Freisher 1
01216	PCBs in Solids	SW-846 8082	1 11/24/2004 11:10	Douglas D Seitz 5
00819	Solid Sample Pesticide Extract	SW-846 3550B	1 11/23/2004 02:50	Sarah M Snyder 1



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Analysis Report

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Lancaster Laboratories Sample No. SW 4411222

PCB1104-21B Grab Soil Sample

Project No. 6527.07

L.E. Carpenter, NJ

Collected: 11/10/2004 12:25 by NC

Account Number: 09322

Submitted: 11/11/2004 15:35

RMT, Inc.

Reported: 12/01/2004 at 14:15

PO Box 8923

Discard: 01/01/2005

Madison WI 53708-8923

1121B SDG#: LEC19-20*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00111	Moisture	n.a.	38.8	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
01216	PCBs in Solids					
01495	PCB-1016	12674-11-2	N.D.	78.	ug/kg	10
01496	PCB-1221	11104-28-2	N.D.	70.	ug/kg	10
01497	PCB-1232	11141-16-5	N.D.	54.	ug/kg	10
01498	PCB-1242	53469-21-9	N.D.	54.	ug/kg	10
01499	PCB-1248	12672-29-6	N.D.	54.	ug/kg	10
01500	PCB-1254	11097-69-1	1,500.	60.	ug/kg	10
01501	PCB-1260	11096-82-5	350.	54.	ug/kg	10

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Date and Time	Analysis	Analyst	Dilution Factor
00111	Moisture	EPA 160.3 modified	1	11/30/2004 17:41		Scott W Freisher	1
01216	PCBs in Solids	SW-846 8082	1	11/24/2004 11:31		Douglas D Seitz	10
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	11/23/2004 02:50		Sarah M Snyder	1



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Analysis Report

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Quality Control Summary

Client Name: RMT, Inc.

Group Number: 921803

Reported: 12/01/04 at 02:15 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 043270012A								
PCB-1016	N.D.	4.8	ug/kg	86			72-120	
PCB-1221	N.D.	4.3	ug/kg					
PCB-1232	N.D.	3.3	ug/kg					
PCB-1242	N.D.	3.3	ug/kg					
PCB-1248	N.D.	3.3	ug/kg					
PCB-1254	N.D.	3.7	ug/kg					
PCB-1260	N.D.	3.3	ug/kg	89			76-122	
Batch number: 04335820005A								
Moisture				Sample number(s): 4411203-4411212	100		99-101	
Batch number: 04335820005B				Sample number(s): 4411213-4411222	100		99-101	
Moisture								

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 043270012A								
PCB-1016	99	97	45-125	2	50			
PCB-1260	123	120	32-139	2	50			
Batch number: 04335820005A								
Moisture			Sample number(s): 4411203-4411212		33.8	34.0	1	15
Batch number: 04335820005B			Sample number(s): 4411213-4411222		29.0	28.4	2	15
Moisture								

Surrogate Quality Control

Analysis Name: PCBs in Solids

Batch number: 043270012A

Tetrachloro-m-xylene

Decachlorobiphenyl

4411203	102	114
4411204	101	105
4411205	93	186*

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
(2) The background result was more than four times the spike added.



Analysis Report

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Quality Control Summary

Client Name: RMT, Inc.
Reported: 12/01/04 at 02:15 PM

Group Number: 921803

Surrogate Quality Control

4411206	99	142*
4411207	95	128
4411208	100	118
4411209	98	103
4411210	98	101
4411211	99	106
4411212	98	101
4411213	98	190*
4411214	95	277*
4411215	96	112
4411216	100	102
4411217	99	138*
4411218	100	153*
4411219	99	308*
4411220	99	312*
4411221	99	361*
4411222	108	547*
Blank	101	97
LCS	101	98
MS	99	112
MSD	99	113

Limits: 53-139

41-132

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Acct. # 9322 Group# 921803 Sample # 4461203-22 COC # 0071088

2

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: RMT Acct. #: _____
 Project Name#: 6527.07 PWSID #: _____
 Project Manager: N Clevett P.O. #: _____
 Sampler: Chris Beall Quote #: _____
 Name of state where samples were collected: NJ

2	Sample ID	Sample Description	Sample Type	Sample Date	Sample Time	Prepared by	Received by	Date	Time	Remarks	3		4		5		6	
											Prepared by	Received by	Comments	Comments	Comments	Comments	Comments	Comments
	PCB1104-6 A			110904	0940	X	X	1	X	- Hold								
	PCB1104-6 B				0945					- Hold								
	PCB1104-7 A				1015					- Hold								
	PCB1104-7 B				1020					- Hold								
	PLB1104-8 A				1035					- Hold								
	PCB1104-8 B				1040					- Hold								
	PCB1104-9 A				1325					- Hold								
	PCB1104-9 B				1330					- Hold								
	PCB1104-10 A				1340					- Hold								
	PLB1104-10 B				1345					- Hold								

7 Turnaround Time Requested (TAT) (please circle): Normal Rush

(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed:

Rush results requested by (please circle): Phone Fax E-mail

Phone #: 616 975 5415 Fax #: 616 975 1018

E-mail address: Nicholas.Clevett@rmatrix.com

8 Data Package Options (please circle if required)

QC Summary	Type VI (Raw Data)	SDG Complete?
<input checked="" type="checkbox"/> Type I (Tier I)	GLP	<input checked="" type="checkbox"/> Site-specific QC required? Yes No
Type II (Tier II)	Other	(If yes, indicate QC sample and submit triplicate volume.)
Type III (NJ Red. Del.)		Internal Chain of Custody required? Yes No
Type IV (CLP)		

Relinquished by: <i>RMT</i>	Date 11/10/04	Time 10:16	Received by: <i>Jay Clark</i>	Date 11/10/04	Time 0915
Relinquished by: <i>Jay Clark</i>	Date 11/10/04	Time 1535	Received by: <i></i>	Date	Time
Relinquished by: <i></i>	Date	Time	Received by: <i></i>	Date	Time
Relinquished by: <i>Jay Clark</i>	Date 11/10/04	Time 1535	Received by: <i></i>	Date	Time

Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only
Acct. # 9322 Group# 912803 Sample# 440 441103-22

AR1104

3

COC #

0071090

Please print. Instructions on reverse side correspond with circled numbers.

1 Client:	RMT	Acct. #:	
Project Name#:	6527.07	PWSID #:	
Project Manager:	N. Jewett	P.O.#:	
Sampler:	Chris Beall	Quote #:	
Name of state where samples were collected:		NJ	

2

PCB 1104 - 11 A	110904	1410	X	X	X	
PCB 1104 - 11 B		1415				
PCB 1104 - 12 A		1425				
PCB 1104 - 12 B		1430				
PCB 1104 - 13 A		1455				
PCB 1104 - 13 B		1500				
PCB 1104 - 14 A		1545				
PCB 1104 - 14 B		1550				
PLB 1104 - 15 A		1615				
PCB 1104 - 15 B		1620	V	V	V	

7 Turnaround Time Requested (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed:

Rush results requested by (please circle): Phone Fax E-mail

Phone #: 616 975 5445 Fax #: 616 975 1090

E-mail address: Nicholas.Jewett@rmtinc.com

8 Data Package Options (please circle if required)

QC Summary		SDG Complete?	
Type I (Tier I)	Type VI (Raw Data)	Yes	No
GLP	Site-specific QC required? <input checked="" type="radio"/> Yes <input type="radio"/> No		
Type II (Tier II)	Other		
Type III (NJ Red. Def.)		(If yes, indicate QC sample and submit triplicate volume.)	
Type IV (CLP)		Internal Chain of Custody required? <input checked="" type="radio"/> Yes <input type="radio"/> No	

Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Acct. # 9322 Group# 921803 Sample # 4411203-22 COC # 0071091

4

Please print. Instructions on reverse side correspond with circled numbers.

① Client:	RMT	Acct. #:											For Lab Use Only				
Project Name/##:	<u>6527.07</u>	PWSID #:											FSC:				
Project Manager:	<u>N. Clewett</u>	P.O.#:											SCR #:				
Sampler:	<u>Chris Beall</u>	Quote #:															
Name of state where samples were collected:			<u>NJ</u>										Remarks				
2														3			
4														5			
PCB1104 - 16 A	111004	0820	+	+	1	X								6			
PCB1104 - 16 B		0825															
PCB1104 - 17 A		0730															
PCB1104 - 17 B		0735															
PCB1104 - 18 A		0940												- Hold			
PCB1104 - 18 B		0945												- Hold			
PCB1104 - 19 A		1100												- Hold			
PCB1104 - 19 B		1105												- Hold			
PCB1104 - 20 A		1115												- Hold			
PCB1104 - 20 B		1120												- Hold			
7 Turnaround Time Requested (TAT) (please circle):	Normal	Rush											Date	Time	9		
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)															11/10/4	0915	
Date results are needed:															11/10/4	0915	
Rush results requested by (please circle): Phone <input checked="" type="checkbox"/> Fax <input checked="" type="checkbox"/> E-mail <input checked="" type="checkbox"/>															11/10/4	0915	
Phone # <u>616 925 5415</u> , Fax # <u>616 925 1010</u>															11/10/4	0915	
E-mail address: <u>Nicholas.Clewett@RMTINC.com</u>															11/10/4	0915	
8 Data Package Options (please circle if required)	SDG Complete?													Date	Time		
QC Summary	Type VI (Raw Data)	Yes	No											11/10/4	0915		
Type I (Tier I)	GLP	Site-specific QC required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												11/10/4	0915		
Type II (Tier II)	Other	(If yes, indicate QC sample and submit triplicate volume.)												11/10/4	0915		
Type III (NJ Red. Del.)	Internal Chain of Custody required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													11/10/4	0915		
Type IV (CLP)														11/10/4	0915		

Analysis Request / Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Acct. # 9322 Group# 921803 Sample # 4411203-22 COC # 0071092

5

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: RMT Acct. #: _____
 Project Name/#: 6527.07 PWSID #: _____
 Project Manager: N. Clevert P.O. #: _____
 Sampler: Chris Beall Quote #: _____
 Name of state where samples were collected: NJ

4	5	For Lab Use Only FSC: _____ SCR #: _____									
(Handwritten notes: N, 50, 50, 00, 21, 21, 21)											
6											

Sample ID	Date Collected	Time Collected	X	+	1	X	Remarks					
PCB1104-21A	11/10/04	1220	X	+	1	X	- Hold					
PCB1104-21B		1225					- Hold					
PCB1104-22A		1245										
PCB1104-22B		1350										
PCB1104-23A		1410										
PCB1104-23B		1415										
PCB1104-24A		1450										
PCB1104-24B		1455										
PCB1104-25A		1535										
PCB1104-25B		1540										

7 Turnaround Time Requested (TAT) (please circle): Normal Rush
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: _____

Rush results requested by (please circle): Phone Fax E-mail
 Phone #: 616 975 5415 Fax #: 616 975 1095

E-mail address: Nicholas.Clevert@RMTinc.com

8 Data Package Options (please circle if required)

QC Summary	Type VI (Raw Data)	SDG Complete?
Type I (Tier I)	GLP	Site-specific QC required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Type II (Tier II)	Other	(If yes, indicate QC sample and submit triplicate volume.)
Type III (NJ Red. Del.)		Internal Chain of Custody required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Type IV (CLP)		

Relinquished by: <i>RMT</i>	Date: <u>11/10/04</u>	Time: <u>0915</u>	Received by: <u>Jay Clark</u>	Date: <u>11/10/04</u>	Time: <u>0915</u>
Relinquished by: <i>Jay Clark</i>	Date: <u>11/10/04</u>	Time: <u>1530</u>	Received by:	Date: <u>11/10/04</u>	Time: <u>1530</u>
Relinquished by:	Date: <u></u>	Time: <u></u>	Received by:	Date: <u></u>	Time: <u></u>
Relinquished by:	Date: <u></u>	Time: <u></u>	Received by:	Date: <u></u>	Time: <u></u>
Relinquished by: <i>Jess B</i>	Date: <u>11/10/04</u>	Time: <u>1535</u>	Received by:	Date: <u></u>	Time: <u></u>

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns >25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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